# DAMERICAN PRICE SO CENTS BUILDER

THE WORLD'S GREATEST BUILDING PAPER



In This Issue: THE GARAGE - Part of the Home Today

# better heating always with the New Honeywell TM\*

Comfort

The well-known electric clock thermostat—automatically provides lowered night temperatures and morning pick-up. NOW better than ever with the Thermostat Magic of TM.

\*Available in a few weeks.

#### Comfort

For lowered night temperatures. Set the dial for the morning pick-up time you select—wake up in a comfortably warm house. The Time-O-Stat now assures pin-point control through the Thermostat Magic of TM.

#### Comfort

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TM means...

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The magic of TM is accepted and acclaimed everywhere...winning enthusiastic approval from builders and home owners, alike. In the building profession, installation of TM simply means that you offer the best heating control available... at no increase in cost. Buyers of your homes will thank you for recommending the newest, the finest—the nationally advertised... nationally accepted... Honeywell Comfort Thermostats with TM!

TM Keeps the heat coming in regulated portions

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#### HERE'S THE NEWEST, FINEST, MOST COMPLETE BASEMENT WINDOW UNIT MADE!

Tenestra

The New Fenestra Corten

Clip-In Metal

GLAZED—no glass or putty problem

#### PACKAGED—no loose parts to handle

#### AVAILABLE IN 3 WAYS

- B: Package A-Fenestra\* Susement Window, plazed, with Screen and Storm Fonel Insert, in cortes.
- 2. Package 8-Basement Window, glazed, with Screen, in corton,
- 3. Basement Window Unglassed-Screen and Storm Panel avallable reportely also.

Three sizes: 2 lights-15" x 12", 2 lights-15" x 16" and 2 lights -15" x 20". Screen held in by two screws. Storm Fanel provides economical insulation.

#### THESE OUTSTANDING ADVANTAGES

- · Easily installed—all of the sizes fit concrete black
- · Glazed—no fiddling around with glass or pully.
- · Sturdy-mode of hot-rolled cosement window sech
- · Weathertight-double contact of such against frame.
- a Leakproof-square corners for tight construction
- · Vermingreef-impervious to rate, termines, other pects.
- · Protected ventilation—opens in at the top.
- e Easy to operate-steel con't worp or swell or shrink,
- a Lacks tight-with quick and easy lever action.
- a Faalpraat-no side orms or hinges to get out of order.

- . Bealty removable—vent removed from Irolde only.
- · Low cost-produced in great volume . . . in standard sizes,
- · Low maintenance-steel can't shrink, not or splinter.

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For garages, shops, dairy barns, building areaways, etc. 2' 916' wide by 3' 616" high. Construction and quality features same as the New Fenestra Basement Window.

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Please send me complete information on the a ancetrs Packaged Basement and Utilay Windows.

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#### From Experience In Their Own Homes—Leading

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**BOB GEISY, Columbus, Ohio** 



#### G. E. CARTER, Port Arthur, Texas



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STATE



#### IN THE SEPTEMBER ISSUE

Read the most comprehensive article on INSULATION ever published. Profusely illustrated with charts, drawings and photographs, the article will present specific details on how to install—where to use—and what benefits are derived from insulation. Here is an article you will want to read and keep for ready reference. Don't miss it!

See how another kitchen equipment manufacturer suggests altering the kitchen of the First Prise House in American Builder's contest for women architectural students to increase its efficiency.

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A double feature blueprint! Two houses for small lots designed by well-known architects that have individuality, sound planning, and are suitable for any climate.

Technical Guide, numerous How-To-Do-Its, and New Products are other popular features of the September issue.

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#### AUGUST, 1950

#### Number 8

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when you
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Pittsburgh
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deep into the middle of
the efocce slab.

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#### Publisher's Page



#### **How to Prevent Socialism**

W HAT kinds of policies should all industries and professions unite in opposing because of their tendency to destroy private enterprise and establish socialism?

Such policies are principally of two kinds: (1) policies by which government takes the money of the citizens and uses it in competition with them, and (2) policies by which government applies unnecessary controls and deprives citizens of opportunity to carry on their businesses and professions with success proportionate to their ability and to the energy with which they use it.

Almost innumerable examples could be given of policies of both these kinds which already have been adopted or are being promoted. The railroads afford the most examples of them. The government has taken and is still taking billions of dollars from the taxpayers, including the railways themselves, to aid carriers by inland waterway, highway and air to take traffic and earnings from the railways. And the government subjects carriers to regulation so unequal that its regulation adds greatly to the difficulty caused the railways by the subsidization of their competitors. The government's combined policies of taxing the railways heavily, subsidizing their competitors and applying more restrictive regulation to the railways than to other carriers is steadily promoting the adoption of government ownership of railways, which would do more than any other single thing to establish socialism.

The government is taxing everybody to pay for government building of homes. In this way it competes with and injures both the private home builder and the private home owner. It can raise money at a lower rate of interest than the private home builder and with it hire labor and buy materials that the private home builder needs. And when, as it always does the government pays less than normal taxes on housing that it owns and rents it at less than cost, it taxes private home owners to help build, operate and maintain the housing occupied by its tenants. Thus it reduces the value of the private home owner's property both (1) by increasing his taxes to help provide homes for government tenants and (2) by charging its tenants less than the rental value of the private home owner's property, based on its cost.

Socialized medicine would subject doctors to controls that would make it impossible for them to attract patients and make earnings in proportion to their knowledge and skill, and thereby hinder progress in the development of the science and practice of medicine.

In view of the fact that every socialistic policy applied to any industry or profession has the same detrimental effects, why has there been no united opposition by all industries and professions to all such policies? One reason is that most men in any industry or profession have little or no knowledge of what government is doing or threatening to do in other industries and professions but believe the socialistic attacks being made on their industry or profession are unusual and, therefore, of special importance. Also,

many believe they benefit by socialistic policies applied to others and have no inclination to oppose what they believe benefits them.

Why should home builders and home owners oppose the policies driving the railways toward government ownership when many of them believe that, as shippers, they benefit by the rates that unequal regulation and subsidization enable them to get from other carriers? Why should the railways concern themselves about socialization of home building and home ownership when they get traffic created by home building regardless of whether the building is done by government or private builders? Why should the railroad and building industries concern themselves about socialized medicine if they believe it will affect only the doctors and that if they oppose it they will increase the hostility to themselves of politicians who are promoting socialized medi-

The answers to these questions are very plain. (1) Every socialistic policy applied to any industry or profession in the long run injures everybody. (2) Private enterprise will never be destroyed and socialism established by most of the people voting for it. If private enterprise is destroyed and socialism established it will be by the application, step by step, of socialistic policies to one industry and profession after another. This process already is far advanced; and the only way to stop it is by everybody who is opposed to socialism opposing the application of socialistic policies to any industry or profession.

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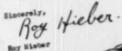
Last year I built ten now houses in the east section of Decrer. I manded these homes, which were designed to sell for \$22,000, to be constituted homes in every some of the word — not only in section constituted has in equipment and fixtures used. By I used American Standard Boating Equipment and Flumbing Fixtures memorer possible.

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More and more builders, like Mr. Hieber, are using American-Standard products to assure quality homes that will sell rapidly and that will bring satisfied customers. Because they're so widely known—for their smart styling, skillful designing, and dependability in service—the use of American-Standard products creates public confidence in the dwellings in which they're installed . . . helps make fast sales, with minimum selling expense.

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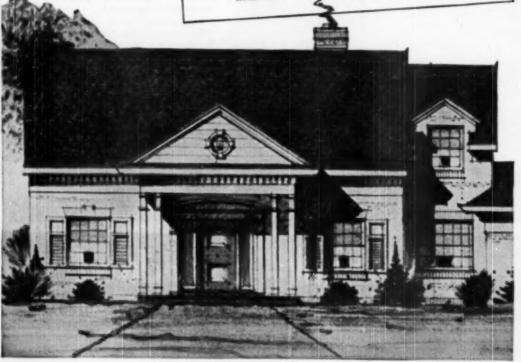
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LOWER-COST WINDOW CONSTRUCTION



SCREEKS



# IN <u>ALL-YEAR</u> AIR CONDITIONING ...AT LITTLE OR NO EXTRA COST!

For little more than the cost of a quality heating plant, you can now offer your new home clients the all-year comforts of Servel All-Year Air Conditioning.

You can offer them homes which will always be ideally comfortable, no matter how hot or cold, how wet or dry, the weather outdoors.

The new Servel All-Year Air Conditioner cools the air or heats it. It squeezes out wilting humidity in summer, adds just enough moisture to the air for comfort in winter. It filters out dust and irritating pollen, circulates air evenly, without drafts through every room in the house.

The whole operation is automatic. Your client just sets the Servel Selectrol—and forgets it. From then on, the Servel unit switches automatically from cooling to heating and back again, as needed, to maintain the chosen temperature.

A Servel air conditioned home needs no porch, no fireplace, no attic fan. Outside doors and windows may be kept closed. Glass may be fixed, permitting use of a simple wood frame. Screens are not necessary. If you plan your homes around Servel All-Year Air Conditioning, you'll find that these and other possible savings permit you to include the Servel unit for little or no extra cost.

The Servel All-Year Air Conditioner can be easily adapted to any size, style, type, or shape of home your client wants. Ask your local Gas Company for all the particulars, or write to Servel, Inc. 1008 Morton Avenue, Evansville, Indiana.





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PLOW CONTROL VALVE WITH AIR TUBE



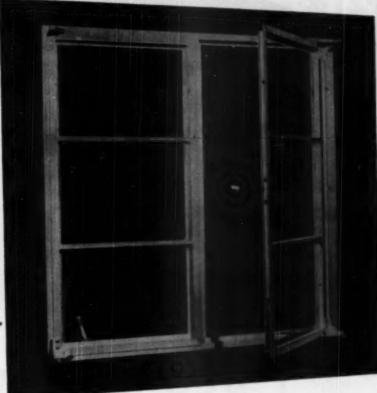
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Send for backlet giving the complete story of Thrush Badison Hat Water Heat. The same rimple equipment may be used for sening apartments inexpensively and is ideal for modernizing home heating plants. For more information, see our catalog in Sweet's or address Dapt. G-B.



H. A. THRUSH & COMPANY . PERU, INDIANA

NO. 201 RADIANT HEAT CONTROL





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The most intensive of all "window shopping"-that of the architect and builder-must stop at the sight of Reynolds Aluminum Casements.

Their superiority in design and especially in finish is outstanding. Their flash-welded corners assure maximum rigidity and weathertightness. Their roto-operation is smooth and dependable, And of course they have the basic advantages exclusive to aluminum windows: rustproof permanence with no need for protective painting, narrow frames of neutral tone to harmonize with any concept.

Reynolds supplies residential casement, fixed and picture windows in all combinations, standard and western types...also Reynolds Aluminum Screens to fit these and all metal casement windows. Stop right here and write for complete descriptive

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Offices in 32 principal cities.

... and so does all

Casement Screen shopping!

Reynolds Aluminum Screens fit not only Reynolds Windows but all Aluminum and Steel Cosements. Exclusive corner lock feature assures great rigidity and high spring tension to keep the cloth tight. Where you are buying new windows, specify Reynolds Aluminum Windows complete with Screens, Where you must screen other casements, do it with Raynolds Aluminum Screens, See your dealer!

REYNOLDS ALUMINUM RESIDENTIAL CASEMENT FIXED AND PICTURE WINDOWS

REYNOLDS ALUMINU



We present the ALL NEW

# ase ONE-PIECE

with lower bowl and important sanitary developments

With the \$1000 Case One-Piece, modern development in water closet design attains a new standard of beauty, performance and utility. The \$1000 carries on the immensely popular idea sponsored by Case in the original one-piece water closet. New mechanical features assure the positive, quiet flushing action people desire in the up-to-date bathroom. The bowl has been lowered one inch, incorporating the findings of the latest research on posture. For maximum health protection, the riser pipe of the ballcock

is enclosed in a china channel completely separated from the water in the tank. The body of the ballcock is located well above any possible water level, An open atmospheric vent obviates all possibility of back-syphonage under any conditions. Of particular appeal is the fresh exterior styling, designed to convey the feeling of quality inherent in this fixture. The \$1000 is built to the highest specifications, is attractively priced, and is available in white and 26 popular colors. See it now at your Case distributor-or write for folder. W. A. Case & Son Mfg. Co., Buffalo 3, N. Y. Founded 1853,

#### ... and a new matching lavatory

The handsome new style motif of the One-Piece water closet is duplicated line for line in this companion lavatory, the new Windell \$ 780° with specially designed fittings. When installed together, each future romplements the other's beauty.

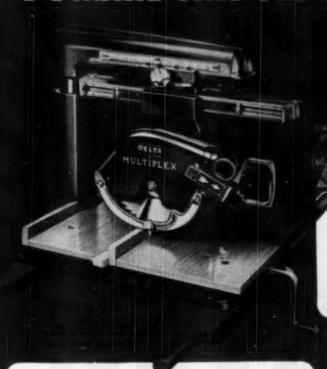




(Lavetory) - Di Mick, 6



## MAKE THIS SIMPLE MITER TEST!



Try all saws before you buy! It's easy . . . ju follow this picture. Swing arm to right for right hand miters . . . then swing arm to left for left hand miters. The saw must cut miters and angle dado from 0° to 90° both right and left, as shows to be fully practical in today's construction Don't take less - get the full range.

## DELTA" MULTIPLEX portable job sho

Delta Multiplex is the perfect radial saw. Look over these new features: \* Double Radial Action sets up faster. \* Centralized Cutting works safely in common area.

\* Pivot-point Slide keeps kerf always above work-top.
\* Safety Guard fully encloses saw teeth. \* Front Controls

adjust faster, safer. \*Full Saw Action, no lost motion.

\* Eye-level Degree Scales easily visible. \*Antifriction Ball Bearing Carriage rides life-time Nitralloy trackways, \* Plus Delta Quality Values.

There's no doubt about it - make the miter test and prove to yourself Delta Multiplex is your best buy!

DOUBLE RADIAL ACTION

DELTA MULTIPLEX







Learn more about Delta Multiplex these 3 ways:

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Sound -- Action -- Color Ask your dealer to



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RIGHT...BECAUSE IT'S EASIER TO INSTALL...BECAUSE
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MORE FOR YOUR MONEY!

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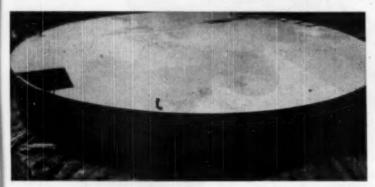
Dexter Locks and Latches, Buildars, Cabinet, Serson Door and Shelf Handarase



#### Ten Years Ago...

this test paving was laid in Minneapolis—the first premarcial use of
Atlas Duraphelic ofe-entraining
coment. Radly scaled background
section was made with regular orment. Foreground concrete was laid
at the same time with Duraphetic coment.
Here are both sections, photographed ten
years latur, after ten severe winters, heavy applications of de-icing salts and many freezing-thawing cycles—convincing proof of Duraphetic concrete's lasting derability. Longitudinal
structural crack shows some raveling. Note perfect transverse joint.

# TOWN... A typical report says: "DURAPLASTIC\*... highly resistant to the effects of freezing and thawing"



7,000,000-gallon Water Reservolr, South Bend, Ind. Contractor: Thomas L. Hickey, Inc., Duraplastic ready-mined concrete, Kuert Concrete, Inc., both of South Bend.

The contractor on this 4000-cu. yd. concrete reservoir built exclusively with Altas Duraplastic air-entraining portland coment reports:

"...walls have a pleasing appearance with smooth texture and no 'honeycomb' spots or streaks. We particularly like Duraplastic for structural concrete, especially if it is exposed to the weather. Duraplastic concrete is highly resistant to the effects of freezing and thawing ..."

This report is typical. For Atlas Duraplastic air-entraining portland cement has proved its advantages in a wide variety of structural and mass jobs; foundations, walls, columns, and floors. It's ideal for slip-form, gunite and other uses. It requires less mixing water for a given slump; gives a more plastic, uniform mix; places and finishes easily.

Atlas Duraplastic complies with ASTM and Federal Specifications, sells at the same price as regular cement, calls for no unusual changes in procedure.

Send for free new booklet, "A Decade of Atlas Duraplastic Air-Entraining Fortland Cement." Write to Universal Atlas Cement Company (United States Steel Corporation Subsidiary), Chrysler Building, New York 17, N. Y.

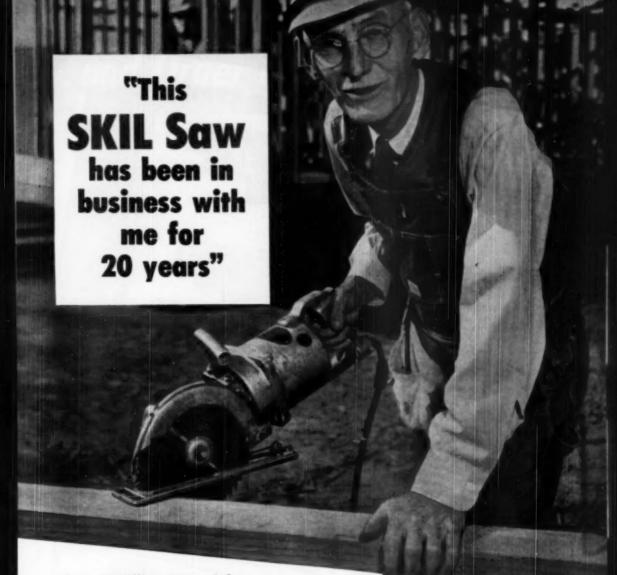
Offices: Albany, Birmingham, Boston, Chicago, Dayton, Kanson City, Minnospelis, Haw Yark, Philadelphia, Fillshareh, St. Lasis, Wann.

\*\*Duraplastic" is the registered trade mork of the air-entraining partition coment manufactured by Universal Atlas Coment Company.

ATLAS DURAPLASTIC

8

NBC BUMMER BYMPHONY CONCERTS-Spensored by U.S. Stoel Subsidiaries-Sunday Econings-June to September



Says F. William Wessel, for over 40 years a carpentercontractor in Peoria, Illinois

Bill Wessel and his Model E SKIL Saw have been working together day after day for more than 2 decades and both are still going strong. Bill

knows, probably better than anyone, that SKIL Saws don't need to be babied or pampered to keep them out of the shop and on the job.

Here's one reason Bill Wessel's old veteran (like all SKIL Saws) stands hardest wear and the shock of heaviest loads: It has famous SKIL Saw Worm-Geor construction and the extra margin of power that make tough jobs easy year after year. Contractors who know never take chances. For saws they see their SKIL Distributor. It's plain good business for you to see him, too.

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#### FOR DOORS

Conveniently packaged in sets for airmost all standard doors. Available with regular brass and felt able with regular brass and felt able with regular brass and exposed hooks. No general skill or tools are required. Early installed with only a harmost cial skill or tools are required. Eas-ily installed with only a hammer and household scissors. Comes complete with sufficient strips for complete with sufficient strips for screws, neals and instructions for screws, neals and instructions for constitute. Declare for countship. installing. Perfect for over-the-counter sales!

FOR WINDOWS Numetal Window Sets also come complete in convenient packages.

Complete in convenient packages.

Fits all standard 28", 30", 32",

and 36" double hung windows.

Cut-to-dimension sizes available. It is a practical and efficient type it is a practical and efficient type of permanent weather strip and can be quickly installed by anycan be quickly installed by arry-erse. Each set contains necessary erry for top, bottom and sides, meeting rail strip, each plugs, main and instructions. Individue nails and instructions. Individually packaged - ready to hand to your customers









Just what your customers need to keep cold air, dust, and dirt from blowing under cold air, dust, and dirt from blowing under doors. A popular seller! Made of wool felt Furnished in standard lengths for 28", 30", 32", 36", 42" and 48" doors. Also available in special lengths. Packed 1/2 dozen same lengths in special lengths. length in each carton.





Nu-WAY WEATHER STRIP

Easy to sell because it's so easy to put on! Works perfectly on any type window or door. Made of mothproof, pre-shrunk, color-fast, wool felt and white metal. Attractive display carton contains 12 individual 20-ft. rolls.



Westerneted Western Strip We Way Weather Strip W Harmeted Book Bustones No-GARD Automotic Door Bottoms We Mr. ART Thresholds On GARD Coll Woodher Strip Ho-CALK S

Nu-GARD Automatic DOOR BOTTOM AND DRAFT ELIMINATOR



This is the door bottom in answer to a home-owner in a home-owner in the first present the state of the state is opened the hinged felt her. is operaed the himsed felt sec-tion automatically cause to chear carpet All working Parts and cover shield are made of high quality. Alacrosse made of igh quality Alectores made of Easily most frust or tarnish.

28 2 3 Moralled Purnished in the program of the purnished for the purnished in the purnished in the purnished of the purnished in the purnished or the purnished o pris right or left hand door.

Packed in individual cartons. including necessary screws and completely illustrated instruc-tions. A Nu GARD Automatic Door Bottom is a Doon to your customers and a boost to you'll self on! Bottom is a boon demand development of desploy came taken brittee the fitter destroy of some taken brittee the fitter destroy of some taken brittee the fitter destroy of some transmit with your control of the fitter destroy of the fitter destroy. The southeast destroy destroy of the southeast described the southeast d



## NU-ART THRESHOLDS

Thresholds are becoming increasingly important in the weatherproofing picture residential as well as commer-cial and industrial! You should have a complete stock of these attractive thresholds. Available in brass or Alacrome, with holes drilled, screws fur--each individually wrapped nished



Here is the perfect coil strip! Patented nailing zone feature eliminates buckling and forms weather-tight buckling and forms weather-tight edge. Double turned outer edge forms a humproof, rigid contact. Pecked 100 ft. or 200 ft. in exclu-Packed 100 ft. or 200 ft. or sive patented dispensing carton or with your initial order for five 100 ft. rolls we give you a sturdy counter display case.





## Ne CALK SPEED LOAD

America's favorite calking comp America's favorite calking compound in the most efficient calking compound the market Pack calking load on each cartons and 4 cartons per ship. cartons per ship.

Na-Glaze GLAZING COMPOUND

hells better because it does the job better really stars pur'l Wor't for all fleeing. Perfect in attractive cass from in attractive case from 1/2 pint to 121/4 lbs.—in druss from 23 lbs.—in 880 lbs. Order now!

ORDER NOW! Your order will be shipped same day re

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DUALIT



# Increase the range and quality of your building service with

## Architectural Concrete

There are rewarding opportunities for the contractor who uses architectural concrete in small commercial, industrial and public buildings. Such buildings, carefully planned, attractively designed and quality constructed, enhance his reputation and are a source of pride to both owner and community.

Architectural concrete presents no special problems. It simply requires adherence to quality principles—selection of good materials; right amount of water; careful proportioning, mixing, placing and curing.

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Most important is the quality of the mix. Architectural concrete must withstand years of weathering. That requires a minimum water-cement ratio consistent with conditions of placing, but no more than 6½ gal. of water per suck of cement or less than 5½ sacks of cement per cu.yd, and a slump not to exceed 4 in, when vibration is used or 6 in, for hand placing.

Beautiful architectural concrete buildings often cost no more than less attractive structures. That's because both structural and ornamental elements can be cast in a single operation. And the many advantages of concrete buildings—firesafety, minimum maintenance cost, durability—result in low-onnuol-cost service.

For more information on textures and colors, on what is appropriate and economical, on forming details, get a free copy of "Architectural Concrete for Small Buildings," distributed in U. S. and Canada.

#### PORTLAND CEMENT ASSOCIATION

Dept. 8-3, 33 W. Grand Ave., Chicago 10, III.

A national organization to improve and extend the uses of portland coment and concrete...through scientific research and engineering field work



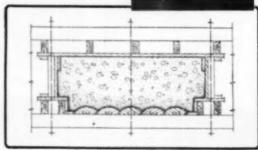


The motor express company office (upper left) derives character from simplicity of design, featuring board markings of the forms and a bold, aluminum painted entrance pylon.

The dairy plant (upper right) uses harizontal and vertical incised joints.

The bank (above) is arnamented with fluted pilasters and a dentil course above the windows.

A closeup of a fluted pilaster is shown at the right; a detail of the farming is shown below,





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USE FIBERGLAS-BUILDING INSULATION IN YOUR HOMES

OWENS-CORNING FIBERGLAS CORPORATION, Dept. 62-H, Toledo 1, Ohio



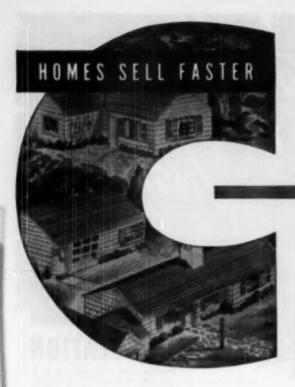




New York, N.Y.







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Builders everywhere are learning that CREO-DIPT Double Wall Zephyrs make any home easier to seil. Used exclusively or in conjunction with other sidewall materials they arouse prospective home buyers' interest.

Mail-this Coupon Now

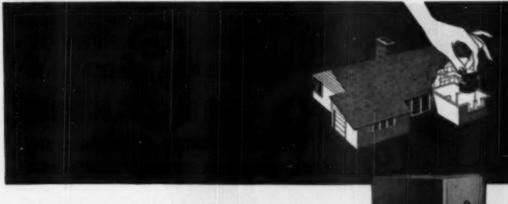
#### EASY AND ECONOMICAL TO APPLY

Aided by the unique CREO-DIPT "Speeder-Upper," two inexperienced men should apply at least 6 squares a day.

#### A COMPLETELY PACKAGED LINE

CREO-DIPT packages its shakes, insulation board and nails in sturdy cartons. You get them in A-1 condition and they're easier to handle on the job.

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10.00	



Here's an introduction that's sure to meet with the approval of clients concerned with heating modern ranch style homes—or garden apartments where heat control and distribution are problems!

Here's a brand new, cabinet-enclosed Richmond unit that takes upjust 22½ x 28 in-hes of floor space to fit easily into a closet or utility area—to lend itself ideally to any first floor or basement installation.

Here's a thermostatically-controlled unit that delivers uniform heat to every room—and does it efficiently and economically.

The new Richmond Furnace is available in two popular sizes—
\$5,000 and 110,000 BTU input per hour—and is fully approved by AGA for all types of manufactured, natural and LP gases.

When you introduce your customers to this new space-saving, money-seving Richmond unit they'll like its ultra-modern features—in the Richmond tradition of fine engineering, design and workmanship.





#### EXAMINE THESE FINE FEATURES

of the Model SU Steel Gas-Fired Winter Air Conditioner

- 1 Sturdy round-cornered light green steel hammertone jacket.
- 2 1725 R.P.M., 115 volt, 60 cycle motor with V-balt drive, variable pitch mater pulley that quickly changes air volume for continuous air circulation.
- 3 Siow speed blower of efficient squirrel cage type, finalizently mounted for quiet operation.
- 4 Heavy gauge welded steel heat exchanger is extra-durable, extra-efficient,
- 5 Gas-tight, all-welded radiator assures a large heating surface, long flue travel.
- 6 Choice of two fine Gas Burner Assemblies—one for natural and mixed gases, one for manufactured, natural and mixed gases.



# Lone Star Masonry Mortar SAVES TIME-AND TEMPER -AT 110°F

 Concrete masonry construction is booming—providing utmost economy, both initial and ultimate, in industrial plants, warehouses, garages, stores;

Walls of clean, smooth concrete block made with LONE STAR CEMENT—or with 'INCOR' 24-HOUR CEMENT, where faster hardening is needed to speed delivery . . . Quality block laid up with LONE STAR MASONRY CEMENT . . . a family kinship of quality materials that means utmost durability and low maintenance cost.

Here is sound block construction at its best, smooth-jointed with mortar to delight a mason's heart...rich, extra-fat mortar that sticks to block or brick like a true friend...mortar that stays plastic until units are firmly bedded, assuring better bond.

This job was done in summer sun, at 110°F—yet Lone Star Masonry Mortar retained its workability, no tempering needed!

Mortar to match the skill of the Masons who use it—that's why Masons everywhere are saying, "Be sure to send me that same Masonry Cement again!"



Owner: GUSTAVESON, INC., Dodson, Mo.

Contractor:

McCUNE CONSTRUCTION CO.

Dodson, Mo.

Concrete Block by ETERNACRETE PRODUCTS, INC. Kansas City, Kas.

Lone Star Mascary Cement from MAY MATERIAL CO., Dodson, Mo.





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## CORPORATION

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LONE STAR CEMENT, WITH ITS SUBSIDIANES, IS ONE OF THE WORLD'S LANGEST CEMENT PRODUCERS: 13 MODERN BILLS, 27,500,000 BARRELS ARRUAL CAPACITY

# in the Building Field

#### **Homebuilding at All-Time High**

May homebuilding broke all previous records by spiralling to 140,000 new permanent dwelling units started, according to preliminary estimates of the U.S. Labor Department's Bureau of Labor Statistics. The May figure was almost 50 per cent ahead of the May 1949 level.

The half-million mark for new housing starts was reached in May this year—two months earlier than last year. The cumulative total for the first five months of 1950 was 538,000 units, compared with 354,000 units in the like period of 1949. The sharp gain in house construction this year has been country-wide, and has been shared by cities as well as outlying areas.

Although annoying, shortages of materials are only temporary and will be cleared up in the next 60 to 90 days.

Producers of building materials have stepped up production to supply materials for residential starts at an annual rate of more than 1,250,000.

Johns-Manville Corporation, according to a Wall Street Journal survey, is reported to be working at a theoretical 120 per cent to 130 per cent of capacity. The nine plants are working three shifts and in most instances six and seven days a week. Unit volume is 25 per cent above a year ago.

Certain-teed Products Corporation is working at capacity. Sales for the first six months of the year are expected to hit \$22,500,000—up 15 per cent from the first half of 1949.

American Radiator and Standard Sanitary Mfg. Company has hiked employment about 36 per cent over last year. American Standard's boiler production in May was 150 per cent over that month a year ago. Bathtuh production has climbed 200 per cent. Other vitreous china products are being produced at a rate in excess of 32 per cent over a year ago.

Lumber mills in the South and Pacific Northwest are producing at a near record rate. A big producer of builder's hardware reveals its incoming business is running better than 20 per cent above a year ago. A major producer of cast iron soil pipe says its plants are working two shifts a day.

Manufacturers of paint, plywood, brick, cement and tile report difficulty in keeping pace with the demand.

Housing Characteristics of other metropolitan areas are now available from the Bureau of Labor Statistic's survey. Last mouth American Builder reported on the characteristics of home building in the Chicago area, showing that the majority of new houses in the area have basements, brick exteriors, loster interior finish, hot air heat, wood window frames, and have either four or five rooms.

Other cities for which data is now available include New York, Philadelphia. Washington, D. C., Atlanta, Pittsburgh, Miami, Dallas and Los

Angeles.

It is no surprise to find from the survey that basements are non-existent in Miami, Dallas and Los Angeles; that only 20 per cent have them in Atlanta and 12 per cent in San Francisco.

Brick exteriors predominate in Philadelphia, Washington, D. C. and Pittsburgh. Stucco on masonry construction and stucco on frame is applied on 91 per cent of the new houses in Miami and Los Angeles res ectively. In the other areas wood or asbestos shingles are used most extensively.

Dry wall construction, mainly gypsum board, flourishes in New York, Washington, Atlanta, Dallas and San Francisco, but not in Philadelphia, Pittsburgh, Miami, Los Angeles or Chicago.

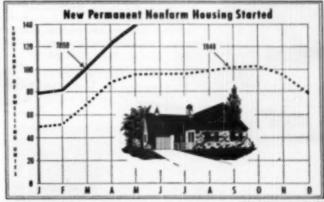
Hot water heat is used in 41 per

cent of the new houses in the New York area, 14 per cent in Philadelphia and Pittsburgh, but not to any extent elsewhere. Radiant systems are used in 18 per cent of the houses in the New York area and 9 per cent in Chicago. Elsewhere new homes are heated by hot air except in Atlanta, Dallas, Los Angeles and San Francisco where thore or wall furnaces are used. Miami does not admit to using any kind of heating equipment.

Window frames of steel and aluminum, used almost exclusively in the Maine area and elsewhere, account for from one-fifth to one-half of all windows. Aluminum window frames are used in about 5 per cent of new homes in Philadelphia and New York.

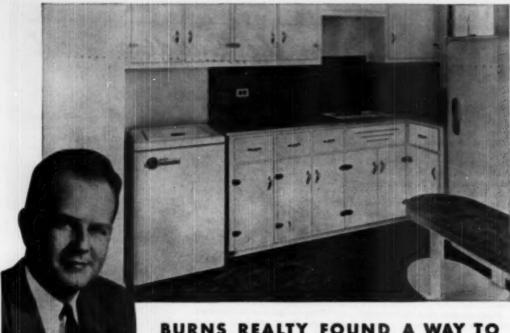
The majority of new houses have four or five rooms, except Pittsburgh where 53 per cent are six rooms or more. Philadelphia, Washington, Pittsburgh and San Francisco have a high ratio of six room homes.

Most new homes are operative built, according to the survey, except in Pittsburgh where contract built homes account for 7 per cent of the total and owner-built homes for 41 per cent. On the latter, the owners do a substantial amount of the labor. In all areas most new homes are built in projects of less than 25 mits. Only a small proportion are built in projects of hundrels of units, except in Los Angeles, where 22 per cent of the new homes were built in groups of 100 or more.



Baited States Bagt, of Labor

AMERICAN SULLNES CHART



F. L. Burms

#### BURNS REALTY FOUND A WAY TO MAKE BUYERS OUT OF LOOKERS!

Every home in the great Brentwood Development comes equipped with a Bendix Washer

Out Denver way, they do things up big. And this huge development by the Burns Realty Co., is a typical example. 1150 homes will

> be the total count by the end of this year. And every home will be equipped with a Bendix Washer!

> Why did Burns-along with so many other "look-ahead builders" -choose Bendix?

> > A woman wants convenience. A man wants value. They both get what they're looking for

in a house that's equipped for modern living. And a Bendix is the very symbol of today's time-saving convenience.

Many, many builders have discovered that a Bendix home Laundry as part of their package is the "extra" that closes saleseven in the heat of today's keen competition. The Bendix builder story is a story worth looking into. Check up on it through your nearest Bendix distributor-or write us for his name.



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BENDIX HOME APPLIANCES, INC., SOUTH BEND 24, INDIANA



#### eetwood AKES GARAGE

#### Compare these de luxe features with any other door:

- DE LUXE 4-SECTION DE-SIGN - not a one-piece door.
- ALL-WOOD 24-PANEL CON-STRUCTION, kiln dried Douglas Fir and exterior plywood.
- FULL WIDTH SECTION FOR GLASS.
- WEATHERPROOF PAT-ENTED INTERLOCKING JOINT between each section, full width.
- 56 STRAND, QUIET, AERO-TYPE CABLES with internal lubrication.
- TEN ROLLERS WITH 100 **BIG BALL BEARINGS.**
- INSTANT SPRING ADJUST-MENT BRACKET on each side.
- 5-PIN CYLINDER TYPE LOCK with chrome plated handle.

- 9 DOUBLE EXTENSION SPRINGS.
- 10 GALVANITE RUST-PROOFED HARDWARE.
- 11 LOWER CORNER BRACK-ETS cradled under door take all lifting load.

See this handsome new door at your local Crawford dealer. If not yet available in your community, write us direct or send check and trial order and we will ship promptly from point nearest you. It's a record-breaking value, priced away below the merket. Quickly and easily installed by your man and works like a charm. Moneyback guarantee.

**FLEETWOOD DOORS ARE ALSO** AVAILABLE IN INDUSTRIAL SIZES UP TO 12' x 12'.

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THE COPE TALLS IN LINE

DEALER INQUIRIES INVITED

# Dis Hollywood .. IT'S JAME WYATT .. IT'S

Hollywood leads the way to making America's housewive want the latest and best for sheir houses. That's why Jam Wyut? Is pictored in a kitchen that

sparkles with Genuine Chy Tile. The rich, decorator
uniter are fired-in... tiled surfaces dely scratches and
imains... wipe clean with just a damp cloth.

Available in a wide variety of solors and patterns,

Olmo Wyoff will soon be soon in MY BLUE PELAYER, starring Salty Grabbs, a 20th Camtury Fox production. Color by Tachniceles.

> The Yile Council of America, Roses 3401, 10 East 40th Street, New York 16, M. Y., Room 433, 727 W. Brownth Street, Los Angeles, California.

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THE MODERN STYLE IS CLAY TILE

#### Letters to the Editor

#### Open End Mortgage

Sir: Please give us a little information concerning open end mortgages and in what sections of the country they are working. . . . We understand you made a most interesting talk on this at the Florida Lumber Convention, and we are sorry not to have been there to bear it.

W. S. Lowry, Secretary and Treasurer, All States Lomber Corp., St. Petersburg, Fla.

EDITOR'S NOTE: It is our understanding that open end mortgages have been standard practice in California for some time and that new regulations now make them acceptable in Massachusetts, New Jersey, Connecticut, New Hampshire and North Dakota. Elsewhere Title I of FHA is now widely used. Although helpful in assisting home owners to make needed improvements, the terms and interest rates are still burdensome. The effective interest rate is close to 91/4 per cent and the maximum terms are 3 years, 31 days. The practice of permitting home owners to make improvements on the same terms that they borrow to pay off their mortgage debts has long been encouraged by American Builder. The mortgagor's stake in the property would be enhanced in virtually all cases. The home owner would be more satisfied with his property. The mortgagor is in a position to be a counselor as to the feasibility of making improvements and adding appliances. Most cases of default can be traced to the mortgagee being overlooked with installment payments. In some localities the title search procedure has been simplified and made less costly so that a new mortgage can be made with allowance for additions. It is to be hoped that the open end mortgage will soon become universal. We believe that it will be of benefit to the mortgagor, to the home owner, to manufacturers of building materials and equipment, and to the economic stability of the nation in general.

#### The Easy Way

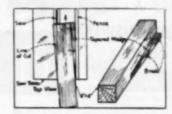
Sirs: Regarding the May issue of American Builder, page 100, and the How-To-Do-It "How to Lay Out an Arch." I submit a much simpler solution (when the span is given, 30 feet, the rise, 8 feet, and the problem is to determine the radius of the arch):

Radius = 
$$\frac{15^2 \text{ plus } 8^8}{2 \times 8} = 18\% \text{ inches}$$

In other words, radius equals one-half the span squared plus the rise squared over two times the rise.

Walter R. Roof Structural Engineer American Roof Truss Co. Chicago 49, Ill.

Sirs: On page 216, May, 1950, American Builder, the article on how to taper lumber on a saw table does not look any too good to me. Nailing a wedge on side of stock takes time. Also, wedge as shown will not do any good, as stock will crowd between the saw and the fence when it is fed into the blade. I have cut lots of tapered parts on my saw without any trouble by using a "hook" wedge, as in this drawing:



R. A. Patenaude Myrtle Creek, Ore.

#### No Charge

Sir: Recently in the . . . issue of American Builder I saw some Catalogs and "How-To-Do-It" information listed, two of which I'm interested in. What is the charge for these items?

R. W. Downs
San Antonio, Texas

Sir: Will you please send us the catalog on "New Decorating Ideas" issued by the Sloan-Blabon Corp. . . . If there is any cost for the catalog please advise us.

Greer & Bridden Ltd., Builders and Contractors Prince Rupert, B.C.

EDITOR'S NOTE: There are no charges for catalogs normally listed in American Builder. Readers may secure any of these by merely filling in the Catalogs coupon, marking the ones they desire, and sending the coupon to us.

## **Contractors!**

This is Profitable Business For You!



Resurface Worn, Dangerous Floors Quickly 1/2" With



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Ideal for exceedsman flower, leading docks, walks, platformer-outly toutained over wood, conserved or compositions flower-outlewars either. No toule to buy, No heating. Notestal curing time 50 forms.

Costomers often ask name of Contractor who will install Recorderer and other Yudcerts products. If you can use more business, mad coupum for detailed information and prices.

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ATTACH TO YOUR LETTER HEAD AND MAIL

Flexus send complete information about your Brownianar proposition to Contractors.

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#### ANSWERING YOUR QUESTIONS ABOUT MODULAR SIZE WOODWORK



#### TO HIGH BUILDING COSTS?

Yes, there is a proved, practical way to help cut the high cost of building. It is modular design—which means that you can cut costs by using plans and materials based upon a 4-inch unit of measurement or "module." Prominent manufacturers of windows, window frames, screens and other woodwork are now providing these products in modular sizes, joining in a great national movement which can help YOU keep building costs down!

PRACTICAL ANSWER

#### WOOD GAINS ANOTHER ADVANTAGE!

Modular design adds another major advantage to WOODthe ideal material for windows, sash, window frames, screens, storm sash and other building products. For wood is a natural insulator—retards the passage of beat and cold. It takes paint or other finishes easily—and holds them in a vise-like grip. Wood discourages condensation, thereby cutting redecorating costs. And today, windows and other exterior woodwork are available twic preservative treated at the factory, for EXTRA resistance where staining, decay, insect attack or humidity are problems.

#### Q. WHAT IS MODULAR SIZE WOODWORK?

Modular size woodwork consists of windows, window frames, sask, screens, etc., sized on a 4-inch unit of measurement. With modular sizes, all types of check-rail windows, whether 2-light, 4-light, 8-light, 12-light, top divided or other type, are built to the same standard 2-light opening size.

#### Q. HOW DO MODULAR SIZES CUT BUILDING COSTS?

By reducing cutting and trimming on the job. Modular size woodwork, used with a modular plan, means that units go together quickly and easily on the job-that construction time is materially reduced-that labor costs are considerably lower.

#### . ARE MODULAR PRODUCTS GENERALLY AVAILABLE?



In woodwork such as windows, window frames, sash and screens, modular sizes are available in all standard designs, including the leading pre-fit or pre-assembled units. Other modular products are now available for the entire exterior shell of a building.

#### Q. IS MODULAR DESIGN SUITABLE FOR ALL TYPES OF BUILDINGS?



Yes, the planning of any building on the 4-inch modular system is easy and convenient. Modular design imposes no limitation or restriction on free architectural expression.

#### GET ALL THE ANSWERS-MAIL THE COUPON!

Your lumber dealer will gladly explain all the details of modular size woodwork-show you how it can save you time and money. Or, mail the coupon for our free folder.

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# From HOUSE Beautiful BETTER YOUR home...better Your LIVING

A PREVIEW OF THE SALES BUILDING OPPORTUNITIES TO BE FOUND IN THE SEPTEMBER ISSUE OF HOUSE BEAUTIFUL REACHING YOUR BEST CUSTOMERS ON OR ABOUT AUGUST 2016

AMERICAN STYLE:

#### **AMPLIFICATION**

TRULY AMERICAN HOUSE CHARACTERIZED IN SEPTEMBER BUILDING FEATURE

"A house in which all the social and technical progress of the 20th Century United States are put to work to serve the basic ideals of American life." That's the way September House Beautiful sums up the many things about appearance and performance which characterize today's truly American house. And tangible reasons are studied in detail . . . traced from the early architecture of H. H. Richardson and McKim, Mead & White down to modern standards, through the years of changing ideals.



The response from the building industry, as well as the public at large, to House Beautiful's significant American Style editorials has been overwhelmingly enthusiastic, since their introduction in the May 1950 issue. You'll want to keep abreast of all current amplifications! So watch for the September feature—"What is a Truly American House?"



#### PACE-SETTER

House Beastiful's third pace-setter house of 1950 appears in the September issue . . . complete with up-to-the-minute ideas which architects and builders all over the country can use to profitable advantage. The sketch reproduced above illustrates the "maximum livability" planning which went into its design and placement . . . for example, the wide-cave protection against all weather, the sonny terrace sheltered from prevailing winds, the traffe-free privacy of the living area, thanks to placing the entrance, garage and service areas along the street side.

CLIMATE CONTROL:

#### SUMMER COMFORT

Looking for ideas to combat excessive heat and humidity? You'll find them in the climate-wise Philadelphia house presented in the September issue . . . many of them simple, not-too-expensive principles adaptable to any difficult summer climate problems.

Merging the stone hillside architecture, so important to Pennsylvanians, with modern Climate Control design and construction requirements, this house embodies summer comfort, privacy and regional tradition. And the common extremes it overcomes offer any number of solutions and selling points for your locality.

Watch for it! Watch for its answers to mildew in closets and storage spaces, roof rot from high humidity, excessive summer heat

(Continued on next page)

#### RIGHT FROM HOUSE BEAUTIFUL

#### ADVER-TIES

POR EASIER, MORE PROVITABLE SALES TIE IN YOUR FORTHCOMING PROMOTIONS WITH THESE FAMOUS NAMES FEATURED IN THE ADVERTISING PAGES OF SEPTEMBER HOUSE

#### INSULATION

#### 32. JOHNS-MANVILLE "BLOWN" HOME INSULATION

JOHNS-MANVILLE CORP.

This neathered flack Weel insulation is pre-mutically "blower" into the halfow control we may be a supposed or harm. The work is done agreemed J.M. contractors who blow the Sa-Ward to the right density. The resulting insu-tion haves fuel in winfor and heapt houses con-tractions are supposed to the supposed to the

#### SURFACING MATERIALS

#### a. Walls & Ceilings

#### 33. BLUE RIDGE PATTERNED GLASS

MUE RIDGE DIVISION LIBBET-OWENS-FORD GLASS CO.

Blue Ridge Patterned Class lats light through, yet its patterns block vision. In September House Resortful the Blue Ridge Solve Bluvision of L.O.F. shaws readers have they can use this beautiful the significant in stores to brighten halfways and in windows where light is decired without visibility.

#### 34. BROWN'S SUPERCEDAR CLOSET LINING

GEO. C. BROWN & CO., INC.

#### 35. MISSISSIPPI DECORATIVE GLASS

MISSISSIPPI GLASS COMPANY

#### 36. ROMANY TILES

U. S. QUARRY TILE CO.

#### 37. STRAHAN WALLPAPERS

THOMAS STRAHAN CO.

STEARAN again leads the field of questly we papers with its new and beautiful 1931 line. I awde range of celars keyed to teday's livic and tasks. It surfacetti and versatile print bee them natically advertised in Mouse Seoutiful House and Gleedon, Bride s, and Living for Year Nemembers. See them. . . . and you'll are you'll sell them.

#### 38. "TREND OF THE TIMES" WALLPAPERS

C. W. STOCKWELL CO.

ANTHURIUM, featured in Stockwell's advantising this menth, is the latest design in the renewment collection of "Trand of the Times Wolfspapers," This is a style-setting bond print wolfspapers, the against by the row emburrout illus of Central America, one of many wolfspaper ideas. From Barchwell's Ica Angeles design studies.

#### MORE ABOUT

#### SUMMER CONTROL

gain, high heat and humidity discomfort, excluding summer sun and insects while still admitting summer breeze. They're all there and many more . . . in September House Beautiful!

#### 39. VITROLITE GLASS PANELING

LIBBRY-OWENS FORD GLASS CO.

Cafer is perputer in tockey's homes ... especially explantal sorteness that sten i finds. Mouse Beschild reviews that sten i finds. Mouse Beschild reviews will find in Libbury-Owers feed it September advertising a calestful esgapesion — works of Virtuality Gloss Penniting in a breakford all. It's on idea yets san use to put entire adds appeal

#### 40. WALL-TEX FABRIC WALL COVERINGS

COLUMBUS COATED PRODUCTS COMP

Walf-Tax Nutric Walf Coverings give the corte-mer triple value — 1. Authoritic descention is calar and design saterities. 2. Protection against planter creeks. 3. Hannel seaso-and-water week-bility time offer time. And Walf-Tax Dedon-hove a triple selling advantage because that customer's most the saths with of beauty-pho-graminositify that Walf-Tax is asked by

#### 41. WELDWOOD PLYWOOD

U. S. PLYWOOD COMP.

#### b. Flooring

#### **42. BRUCE RANCH PLANK FLOOR**

E. L. BRUCE CO.

interest being shown in this new hardwood filling is phanamenal. Builders find it gives he extra poles appeal at only elight additional o

Abminum windows wan't cust group, was eleg, orach or decay. They give you a life service ... yet never need pointing. It gively handsome, aluminum windows g

#### 46. BURROWES HEALTH-GUARD COMB. WINDOWS

THE BURROWES CORPORATION

#### 47. CINCO STO-A-WAY COMB. WINDOWS

CINCINNATI PLY SCREEN DIV. F. C. BUSSELL CO.

#### 48. MODERNFOLD DOORS

**NEW CASTLE PRODUCTS** 

More and more builders find "Maderafeld" doors sell houses feater. The rish beauty of these vinyl-covered, metal-framed doors appeals to prospective buyers flowing seld on the accordion-like action that adds many square feet of usable space. Cost are not increased, for "Maderafeld" doors eliminate tries, hardwore, painting, etc. Literature available. New Castle Preducts, New Castle, Indiana.

#### 49. RUSCO ALL-RIETAL COMB. WINDOWS

F. C. BUSSBU CO.

Any doubt about the advantages of pushing nationally advertised product names? Read this typical subscriber letter:

"Dear House Beautiful:

As a regular reader of your magazine, I think you might be interested in knowing what a great help you've been to my Bushand and me.

My husband and I like to add improvements to our home gradually. Last year, when we added an extra room and did over two others, I'll tell you honestly that every idea we used came out of House Beautiful. There's something about seeing new things and definite nones to ask for in a magazine like yours that makes me, for one, feel safer about buying them. I feel strongly about that, even though you probably hear it from a lot of people all the time,

Anyway, thanks a lot for making our living so much emier, I now look forward to House Beautiful every month.

Sincerely yours,

(Mrs.) E. S.

colors report Bruce's full color advertising anch Plank Floor is producing many inquiri th high percentage of sales. Literature, dispi and over newspaper main available from Bruce Co., Memphis 1, Yam.

#### A3. KENCORK

DAVID E. KENNEDY, INC.

#### 44. "SMOOTHEDGE" TACKLESS INSTALLATION FOR CARPETS & RUGS

THE ROBERTS CO.

"Installing Conset for Ulmost Beauty" is as-plained in this full-super, full-calor advertises. Installing Conset for Ulmost full-calor advertises. Installing Conset for the beautiful effect of "Smoothedge" feekless installinting. Close ups show the flowless: Initial of Smoothedge and explain how this techloss gripper works. Readers are toold to leak feet the full-calor "Better Corpor" toolstilling."

#### DOORS, WINDOWS & EQUIPMENT

#### 45. ALCOA ALUMINUM WINDOWS

ALUMINUM COMPANY OF AMERICA

When building or remodeling, many modern homographers are insisting an aluminum windows.

#### 50. TRUSCON STEEL WINDOWS -SERIES 138

TRUSCON STEEL CORP.

#### "WEATHER-MASTER SCREEN & STORM SASH COMBINATIONS

WARNER MHS. CO.

#### PAINTS

#### 51. CABOT'S COLLOPAKES

SAMUEL CABOT, INC.

#### 52. RAMUC ENAMEL FOR POOLS

INERTOL, CO., INC.

RAMUC enome! provides a long-fasting, enter-repellent, tile-like fisch on concrete peols, or on only mosonry. It actually becames a part of the ourkean — will not powder, peel, blisher or flake off. Colors hold troe under the strengest son. For full information, activess translat Ca., Inc., 499 Pelinghuysan Avenue, Newards, N. J.

#### TURN THE PAGE FOR FREE COUNTER CARD OFFER

#### SANITARY EQUIPMENT

- a. Plumbing
- 53. CASE BATHROOM FIXTURES W. A. CASE & SON MFG. CO.
- 54. CHURCH SEATS C. F. CHUBCH MFG. CO.
- 55. CRANE DIANA LAVATORY
  - CRANE COMPANY
- S6. ELKAY LUSTERTONE SINKS PLKAY MFG. CO.
- 57. KOHLER OF KOHLER BATHROOM FIXTURES.

KOHLER COMPANY

- b. Dishwashers
- SR. G. E. AUTOMATIC DISHWASHER

GENERAL ELECTRIC COMPANY

A new line of Generol Factric Automotic Dish-monthers, with important new feethers for caperier dishweshing results, is being presented in September. The principal features area of Cal-of healing element to promish higher with-rinas temperatures and quick drying, a wesh-cution control, and a power pre-tines.

#### 59. YOUNGSTOWN KITCHENS JET-TOWER AUTOMATIC DISHWASHED

MULLINS MFG. CO.

Ward's Longest Michaes of Sheel Kitchens use full-color 2-page spreads and single page odver-tisaments in September mouselines to onneunto new Youngstown Kitchens Automotic Dishwesher-built on a revolutionary, high-difficiency principle known as "Jet-Tower, with exclusive Hydro-Brush Action." You models: 68" Electric Sink and 27" Cabinart model.

- c. Water Heaters
- 60. AUTOMATIC GAS WATER HEATERS

AMERICAN GAS ASSOCIATION

- d. Garbage Disposers
- 61. IN-SINK-ERATOR ELECTRIC GARBAGE DISPOSER

IN-SINK-ERATOR MFG. CO.

### TECHNICAL DATA

Technical reports on House Beautiful's Climate Control Project are being published by the American Institute of Architects for the benefit of architects, contractors, manufacturers and home owners. They analyze precipitation, temperature, wind velocity and direction, humidity, sunshine, etc., for each region studied by the Project, and are available concurrently with the appearance of the general regional story in House Bransilul. Mid-Ohio, Metropolitan New York and New Jersey, Southern Florida. Southwest-ern Desert, Missouri River Valley and Gulf Coast analyses are now available. Price 50: each from Administrator, House Beautiful's Climate Control Project, 572 Madison Ave., New York 22, N. Y.

To illustrate how properly planned porches make fine climate control devices, as well as pleasant places to sit, this sketch is included in the September Philadelphia house story. In this case, the two-story porch along the entire south wall keeps sun, insects, and blowing rain out of all rooms, permits large glass doors to slide back for real summer ventilation. Insulating glass makes same walls weathertight in winter.

#### HEATING, VENTILATING, AIR-CONDITIONING, HUMIDIFIERS

#### 62. AMERICAN-STANDARD WINTERWAY WINTER AIR CONDITIONER & EMPIRE BOILER

AMERICAN RADIATOR & STANDARD SANITARY CORP

Slapen are the new all fired Winterway Winter Air Canditioner, beasment type unit for small to medium size homes; and the gas fired Espire Bailer for basement of the flavor installiation. Just true of the meny American-Standard products for any type of heating — with ail, ges, or cost.

#### 63. B & G HYDRO-FLO HEATING

BELL & GOSSETT COMPANY

#### 64. BURNNAM BASE-RAY RADIANT BASEBOARDS

BURNHAM CORPORATION

BUSHNAM BASE-BAY BADIANT BASEBOARDS -Mode of durable cast-liven, these redices been baseds hard hard longer, Gely 7" high, they odd to the appearance of any roses. Placed an autholic wolls, where hard loss is greatest, they deliver radiant heat of ankie-height. Suitable for her motion to see the control of the c

#### 65. CHRYSLER AIRTEMP HOME HEATING AIRTEMP DIVISION, CHRYSLER CORP.

#### AA. DUNHAM BASEBOARD HEATING

C. A. DUNHAM CO.

Modern, hundowne Burham Cobinet Conventors ore efficient heating scrits which can be recessed into walls or fifted onegly codes windown. De-signed for use with for wales, sheem or roper, for old buildings as well on new those conventors are membrathized in numerous types and sizes a convector for every need?

#### 67. FITZGIBBONS BOILER-EURNER UNIT

FITZGIBBONS BOILER CO.

All Fingilibrans residential steel ballers are now available with an ail burner if desired. The Fingilibrans ail burner is thoroughly standardized and has proven inself in thousands of installa-

tions. It teams up perfectly with the Fitspibbons steel befor for meximum fuel servings and trouble-free operation.

#### **68. FRIGIDAIRE ELECTRIC DEHUMIDIFIER**

FRIGIDAIRE DIVISION GENERAL MOTORS CORP

New's a sure simple way to check maisture desemps — electrically and automatically. The ornazing Frigidative observing Department of the containing size over chilled cools — forcing maintenance into containing or over the condense into containing or of the condense into containing or of the property of the condense in cost of the many states to provided the containing the cost of the cost o

#### 69. HEATILATOR FIREPLACE UNITS

HEATILATOR, INC.

Machiner unit circulates hant to every corner of room and assures cornect fireplace construc-tion. Buildors! — More's a dramatic extra selling feature you can said to houses very economic Architects! — Use of Heartland units serves supervision time! Develors! Mestilades is sto up its national advertising, pre-ceiling man

#### 70. MOR-SUN FURNACES

MORRISON STEEL PRODUCTS, INC.

#### 71. NU-WAY CO-2 OIL BURNER THE NU.WAY CORP.

#### 72. SILENT GLOW OIL BURNER

THE SILENT GLOW OIL BURNER CORP.

#### 150. TRADE-WIND SUPER-CLIPPER **EITCHEN VENTILATOR**

TRADE-WIND MOTOBFANS, INC. 73. VENT-A-HOOD KITCHEN COOKING

#### VENTILATOR

VEHT-A-HOOD COMPANY

Covering the ENTISE range area, Vent-A Has insteadily consumes and removes all could reteem, prease vapors, adars and heat from thame. 250,000 events tell as that the extends

#### RIGHT FROM HOUSE BEAUTIFUL

#### ADVER-TIES

Life of decembing plus sovings on closning for rugs, phaseries and furnishings more pay for a Yeart A Hand Indemnative—and It fore an respect. Yeart A Tool Company, Plantation Drive, Dollar 9, Taxos.

#### 74. WATERBURY FURNACES & AIR COMDITIONERS

THE WATERMAN WATERBURY CO.

#### 75. WERSTER BASEBOARD HEATING

WARREN WEBSTER & COMPANY

#### 76. WILLIAMS-OIL-O-MATIC OIL BURNIES

WILLIAMS OIL O MATIC DIVISION EUREKA-WILLIAMS CORP.

Regard, beautiful more concernical Williams Oil-C. Busic COMPLETE beating units provide worse of visitor oil conditioning, hot worker, or steem head in bannes of every size. Oil-O-static's hayest gainlin' backlet "There is a Bid-difference in Cill Ferticor" candidly compartes all types. With Williams Oil-O-Mortic Division, Euraka-Williams Core, Bloomington, Illinois.

#### KITCHEN CABINETS

#### 77. COPPES HAPANEE CUSTOMBUILT KITCHENS

COPPES. INC.

#### 78. FORMICA ON KITCHEN SURFACES

THE FORMICA COMPANY

The Furmise Co. offers, free for the osking, copies of its new full-seize brachure, "CPEN FORmice Interfection." Brechure (Ilustrates attractive spellisticus of Formice throughout the home, to-

fuding hitchen, buthroom, Sving and badroom. Address requests to the Formics Co., 4680 Spring Srove Avenue, Cincinnati S2, Ohio.

#### 79. GENEVA STEEL HITCHENS

GENEVA MODERN KITCHENS

ORDERY A STEEL BITCHENG — This large line of strendered soldinete plus only special with desired makes it every to plant bitchess for confines or courfees. Highlights of fine include assumines chain-free them to the plus only a soldine assumines chain-free these bitches are consider to put. I not the sold assumines chain facilities include and out, senseith, silent director confines, P. M. A. opportune.

#### 80. KITCHEN MAID KITCHENS

KITCHEN MAID COMPORATION

Now you can offer your evolumers Beautiful Kitchen Mold Eitchen with medeen Plo-Line Styling, Aluminum Druwers, Beain'te Doors, and a heat of convenient features. Available in fear delightful pastels and the popular Appliance White, Advertisements supported by a full assortionant of sales promotion material and a complete sewupage mat service. The Etchen Mold Corp., Andrews, Indiana.

#### RESIDENCE ELEVATORS

#### 81. SEDOWICK RESIDENCE ELEVATORS

SEDGWICK MACHINE WORKS

One-stery convenience for two-stery dwellings can be achieved by planning for installation of residence sievators, stein-fravelers and dumb wolvers. Vertical franspartation not only conditions hama sumers to have the convenience of con-stary living, but, in addition, provides many other destroits convenience such as higher levels, healthirst chepting quarters; greater prioners.

#### LIGHTING & WIRING

#### 82. CUTLER-HAMMER MULTI-BREAKER

CUTLER HAMMER, INC.

28. SIGHTRON

LIGHTOLIER, INC.

#### CLOSET FIXTURES

#### 83. KITCHEN K-VENIENCES

KNAPE & VOGT MFG. CO.

More than 40 of these space saving clutter closet flatures make up the E-VENIENCE line

Send for your FREE House Beautiful Window and Counter Display Card this easy way....

AB Sep

Circle the numbers below which appear beside the advertisements you wish mounted, fill in your name and mailing address and mail coupon to: Merchandising Division, House Beautiful Magazine, 572 Madison Avenue, New York 22, N. Y.

28	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

150 91

MARK

ADDRESS

CITY 39

These flatures double the capacity of any size a shape closel. They are mode of cheef, plants with shining channe, a new line of epone series ETCHEN E-VENERACES provide a place to overything from pans to deat maps.

#### 84. KIRSCH DRAFERY HARDWARE

KIRSCH MFG. CO.

#### **85. SOSS INVISIBLE HINGES**

SOSS MANUFACTURING COMPANY

Succio marviorate Difference Colora Any Succio for Islanda Ringos have floudy, empath, or historia officials that definitely give any type of beylding on increased oir or quality, of medientity, of obsessional genericus beauty. The in your sales patentisions with Sass MCUSE BEASTIFUL advantages and increase your proof privace. Them is a weight rested Sass Mouse for every type of incollection, Sass Americaning Company, Detroit, Mich.

#### FIREPLACE ACCESSORIES

#### 84. FLEXSCREEN FIREPLACE SCREEN

BENNETT IRELAND, INC.

#### MASONRY

#### 87. PORTLAND CEMENT

PORTLAND CEMENT ASSOCIATION

#### MISCELLANEOUS

\* TUCKER DETERGENT HOUSE WASHER TUCKER MPG. CO.

#### **FENCES**

#### 88. ANCHOR CHAIN LINK FENCE

ANCHOR POST FENCE DIV ANCHOR POST PRODUCTS, INC.

#### 89. HABITANT RUSTIC WOOD FENCES HABITANT SHOPS, INC.

#### 90. RUSTICRAFT WOVEN PICKET FENCES BUSTICRAFT FENCE CO.

#### GARDENING

#### a. Equipment

#### \*BRIGGS & STRATTON GASOLINE ENGINES

BRIGGS & STRATTON CORP.

#### "GRAVELY 5 H.P. GARDEN TRACTOR GRAVELY MOTOR PLOW & CULTIVATOR

COMPANY

#### b. Fertilizer

#### 91. ARMOUR VERTAGREEN

ARMOUR FERTILIZER WORKS

#### c. Lawn Care Products

#### "SCOTT'S LAWN CARE PRODUCTS

O. M. SCOTT & SONS CO.

Increase the volume of your garden department this Fall by featuring Scart's LAWN CARE PRODUCTS. SCUT for killing crospous WEED. TUP BUILDER, Scarts LAWN SEED and SPERDERS, Millions have August. September, and October are forwared searchs for startline. storting new lowns or rejuvenating scarched ones. It's Noture's seeding time

No card available

#### On and Off the Record



Hous, Views and Commont

GENERAL MOTORS—The fiveyear agreement made with UAW-CIO is unique in labor-management relations. It cannot be re-opened by either party for five years, for any cause before May 29, 1955.

HIGHLIGHTS — Adjustment of wages every three mooths in accordance with a cost-of-living formula; an improvement factor of 4 cents perhour annually; funded non-contributory pension plan; an insurance package for which GMC pays about half the cost; increased vacation pay for 15-year men; additional five cents perhour for certain skilled jobs.

MOST IMPORTANT—While the wage scales are important, of far greater importance to everyone including the public is the apparent agreement between GMC and CIO on common goals.

PATTERN—The five-year agreement could set a pattern for all future negotiations, eliminate all strikes for five years at least, and provide a firm basis for industrial achievement as yet unequalled.

MORTGAGE BANKERS.—They view the "Middle Income" housing bill and reduction of rate on Sec. 203 FHA loans without alarm. They do express the hope that Congress will recommend no further relaxation in terms.

NEED STABILITY—They ask a reasonable period in which to operate under present terms, and decry uncertainties which would be injected through further government intervention.

COOP HOUSING—There seems to be little question that the administration in Washington will press for a government supported cooperative housing bill. Such legislation would confuse the whole structure of financing the present million-a-year home building program.

STARTS—The first five months of the year chalked up about 525,000 starts. Considering seasonal variations, and based on that total for five months the year could ring up 1-1/8 to 1¼ million starts, a new all-time record for any year. Weather and the limitations of certain segments of the industry will determine the final total. COSTS—These are on the increase, and may go to a point where buyers will resist. A spot survey in Chicago in late June indicated that costs were up 7 per cent over the 1949 low, and prices up 5 per cent.

CHICAGO VOLUME—In spite of advanced costs and prices, sales of ready-built homes for present and future delivery were unchecked, and contracts for new custom-built homes were being signed in increasing numbers. Public was evidently convinced that increased wage scales to building tradesmen and others had set a new long-term cost basis.

ESCALATOR CLAUSES—These were beginning to appear in several spots including the New York area, Reason was sharp rises in lumber prices, and scarcity of some materials. Reports of attempts to renegotiate contracts by builders who had sold for future deliveries from models being circulated.

TROUBLE—Builders in several parts of the country, who had sold heavily for future delivery at firm contract prices were reported in trouble—unable to deliver at contract price without loss, and facing lawsuits if they failed to deliver.

TEAMSTERS—A Westchester (N.Y.) local business agent was reported to have forced builders to abandou the practice of picking up materials in their own trucks, and instead, hire trucks with drivers from a service concern. Started when union insisted that union teamsters do all the hauling on every job.

SPECIFIC CASE—Builder was short of copper nails one morning, so drove to his supplier and picked upkeg of nails. After return to office was phoned by union and asked if he had had his private car at suppliers that morning. Builder replied in affirmative. Was ordered to have check for one day's pay for truck driver at union office immediately.

P U B L I C HOUSING—Builders and suppliers in New York agree that public housing programs—federal and state—are seriously hurring private builders by draining materials and labor. That was situation in early summer,



# During National Home Week, feature the that completely modernizes dishwashing POWERFUL ADVERTISING THAT

Act Now! Install Youngstown Kitchens Automatic Dishwashers . . . and Get the Full Selling Power of Sensational Advertising that Appears in Your Local Papers — as well as Nationally — during National Home Week.

THE BIG NEWS in the kitchen appliance field is the entirely new and different Youngstown Kitchens Automatic Dishwasher.

AND TO THOUSANDS OF HOME BUY-ERS IN YOUR COMMUNITY, the big news will break during National Home Week! Powerful, 4-color double spreads in national magazines and sensational advertisements in your local newspapers will sell the new Youngstown Kitchens Automatic Dishwasher as the electric machine that COMPLETELY MODERNIZES DISHWASHING!

To virtually all the thousands of new home prospects who read and hear about the great new Youngstown Kitchens Dishwasher, "Youngstown Kitchens" has long meant "modern kitchens," They'll be presold on the Youngstown Kitchens Automatic Dishwasher—just as they are now presold on Youngstown Kitchens. And when they see the Youngstown Kitchens Automatic Dishwasher in your homes, they'll greet it as the last word—and the best word—in modern work-saving, timesaving equipment.

So make the Youngstown Kitchens advertising of the Automatic Dishwasher, with the exciting new Jet-Tower principle, help YOU sell your houses easier, faster, during National Home Week and after. Wire now, at once, for details.

MULLINS MANUFACTURING CORPORATION

World's Largest Makers of Stool Kitchens



YOUNGSTOWN KITCHENS ELECTRIC SINK combines Dishwasher and Food Waste Disposer (optional) in beautiful 48" Cabinet Sink . . . with all the work-saving features and beauty that have made Youngstown Kitchens world-famous.



YOUNGSTOWN KITCHENS AUTOMATIC DISHWASHER in a trim, tidy, white-enameled steel cabinet – 27" wide, Fits snugly near any sink. Handsomely styled to blend perfectly with other Youngstown Kitchen units. New Youngstown Kitchens Dishwasher
... and CASH IN ON THE
CAUNCHES IT ...

IT'S THE AMAZING

### **JET-TOWER**

with exclusive

#### HYDRO-BRUSH ACTION

—that makes the Youngstown Kitchens Automatic Dishwasher so practical, and so efficient. Water is "booster-heated" to ideal washing temperature (regardless of hot-water supply). Then, 64 whirling, swirling jets brush-flush every hollow, groove, corner and contour of every dish, glass, piece of silver and cooking utensil. Hydro-Brush Action from top to bottom. Followed by two piping-hot rinses. Presto! Dishwasher stops and pops open cover for practically instantaneous flash drying. All in 93/4 minutes (normal water pressure). All done automatically, electrically.



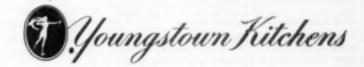


WHEN WOMEN SEE THE EASE AND THOROUGHNESS and speed with which the Youngstown Kitchens Automatic Dishwasher washes dishes, glasses and silver spotlessly clean they're instantly and completely sold?

Users have, generally, one comment: —
"This is the greatest helper a housewife
ever had?"

For the Youngstown Kitchens Automatic Dishwasher COMPLETELY MOD-ERNIZES DISHWASHING. In just 9% minutes, it washes all the dishes for a family of six beautifully clean and bright. And—it's FULLY automatic. All the housewife does is flick a switch. The Youngstown Kitchens Automatic Dishwasher washes, double-rinses, stops, and pops open its cover for quick atmospheric drying—all by itself!

It's superefficient – it is the only automatic dishwasher that incorporates the remarkable Jet-Tower principle and Hydro-Brush Action.





### TECHNICAL GUIDE for Builders and Craftsmen

#### **Installation of Structural Corrugated Glass**

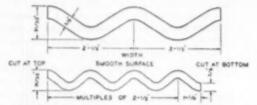
THE POSSIBILITIES of corrugated structural glass as both a structural and design medium are receiving increasing attention from architects and builders today. These men are now finding that entire walls can be made of translucent glass without a criss-cross of supporting members or mortar joints. Its application appears to be unlimited in its scope both for exterior and interior work. Its use is not confined to commercial or industrial work. But has a widespread appeal in many phases of home design. Structural corrugated glass can be obtained in standard

up to 50 inches. Corrugated glass exposed to sun or close to radiators should not be painted. Breakage may occur.

SPECIAL OPERATIONS: When required, pattern cutting can be done on the surface of glass with a diamond saw or by masking and sandblasting. Simple corner notches can also be made, as well as holes up to one inch in diameter for assembly use, etc.

#### INSTALLATION

GENERAL SETTING PRACTICE: Improved Structural Glass should never be glazed directly on hard metal, masonry, or other unyielding base. Where a base of



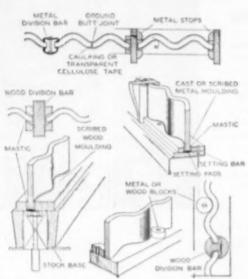
DIMENSIONS of two types of gloss to be observed when ordering

this kind is necessary, wood setting blocks or other cushioning material of adequate size and shape should be used. This glass should never be set directly in concrete, as breakage may result, and it should never be wedged tightly into an opening. Not less than 14 inch should be allowed at each node jamb. The factory does not supply moulding, trim or fittings.

INTERIOR SETTING PRACTICE: (a) Butt Joints: Where this glass is set edge to edge, the sides of the abutting lights must be accurately ground. The appearance of the installation will be improved if the ground edges are first painted with a clear cellulose acetate lacquer or transparent cellulose tape is applied; this will serve to remove the white, ground edge glass, when the installation is viewed from an oblique angle, and will prevent touching and spalling.

(b) Division Bars: This glass can be set with division hars of metal, wood or plastic, which may either be specially designed for the purpose or made up of stock shapes. Unless the division bars provide coverage of at least ½ inch from the edge of each light, the edges of the glass should be

(c) Mouldings: Head and sill mouldings are generally used to hold the glass in place. Unless used in connection with ground edges, mouldings should be at least one inch deep, to cover any spoils or chips. Mouldings may be of wood or metal, and may be made to fit the contour of the glass or may be straight, with the contour filled by scribed (Contoured on page 165)



SUGGESTED details for installing structural corregated glass

widths of 25 and 50 inches with a maximum length of 144 inches. The corrugations of two types of glass most generally used are based on multiples of 2-3/2 inches as indicated in drawing. Thickness of the glass is approximately 3/4 inch.

EDGEWORK: When odd widths of glass are requested cut edges will usually contain spalls, projecting points and cut-backs. These edges should be ground to provide a neat butt joint. When turning the corner with glass it will be necessary to miter ground the edge.

SURFACE TREATMENT: Glare reducing finish can be applied on both surfaces on sheets up to 30 inches in width. Either or both surfaces can be saudblasted in sizes



# Steel truss problems of heat loss, heat intrusion and condensation solved

For under 15c sq. ft., material with labor

### IN FACTORIES, WAREHOUSES, HOSPITALS, SCHOOLS, MARKETS, ARENAS, THEATRES, FIREPROOF RESIDENCES, ETC.

It is hard to keep these structures comfortably warm or cool. In addition, condensation forms, often drips, causes damage. These problems are solved by using 3, tough, never-touching sheets of aluminum, compartmented by 2 fiber or asbestos partitions.

Steel beams are good conductors, exchange much heat with the surrounding atmosphere, causing condensation, and need insulation against heat and vapor flow. Multiple accordion aluminum sheets allow no vapor to pass; are non-condensation-forming; retain no moisture. With their zero permeability, they push out fortuitous vapor from wall, floor, and ceiling spaces. They emit practically no heat on the cold side — only 3%.

Contrast this with the necessity of heating-up tons of steel beams and mass insulation (usually wet) which wastefully emit 90% heat on the cold side. In summer, iron and steel beams, mass insulations, and most building materials, continue to ra-

diate uncomfortable heat into a room long after the outside air has cooled. Multiple accordion aluminum sheets not only are cool at night, but all through the hot summer day often maintain temperatures 10° to 20° cooler than the shade outside.

Insulation as described above is technically called Type 6 Infra.

#### THERMAL FACTORS, TYPE 6 INFRA

Down-Heat C.044, #22.72 equals 71/1" DRY Rackwool

Up-Heat C.080, #12.50 equals 4" DRY Rackwool

Wali-Heat C.073, #13.69 equals 41/1" DRY Rackwool

VAPOR PERMEABILITY equals ZERO

Multiple Accordion Aluminum and Triangular Reflective Air Cells

#### INFRA INSULATION, INC.

10 Murray Street New York, N. Y. Telephone: COrtlandt 7-3833

#### -Oet Valuable Free Copy-

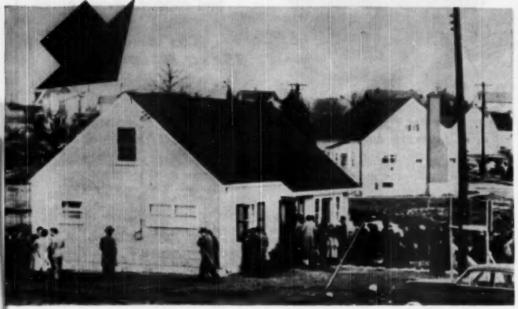
of new, revised "Simplified Physics of Thermal Insulation," an authoritative, simply-written 44-page manual on heat and vapor flow, condensation, radiant heating, etc. Just off the press, Master Chart gives k, C, R, and U factors of all insulations, of all thicknesses, weights, densities.

Explanations and illustrations of multiple aluminum accordion insulations and mass insulations; and how to install and where. Check coupon to get free samples of infra's insulations and price lists.

Our experts will answer specific questions.

	NOW ING				
	INFRA INSULATION, INC. 10 Murray Street, New York, N. Y.				
	lified Physics of Therma	Insulation."			
Name			_		
Firm			_		
Address					
C) Send Price List	a of Insulations	Send Free San	ople		

# They'll beat a path to



THIS PHOTOGRAPH was taken on opening day at the Stratford Acres Model Home in Stratford, Coan. A G-E Kitchen-Laundry was featured . . . and included in the purchase price of the house.

From all over America come similar enthusiastic reports from builders who have installed G-E equipment. VOU, too, can include G-E Kitchen-Laundry equipment in your homes for as little as \$4.30 a mouth under the "Packaged Mortgage" Plan.

Why not install General Electric equipment in your homes, and watch home buyers heat a path to your door?

### General Electric offers you all this:

- Tested merchandising programs that have helped so many other builders enjoy phenomenal sales results.
- The brand of electrical appliances that people prefer to all others.
- One source of supply for matched equipment

. . . a full line of cabinets and appliances,

- Assistance in designing and improving kitchen layouts for your houses.
- And most important: G-E equipment is world-famous for its dependability! Why not let G-E help pre-sell your houses?

You can put your confidence in-

GENERAL @



ELECTRIC

# your door every time!





George Decker and Oliver Martin of Stratford, Conn., built their model home with a completely equipped General Electric Kitchen. Although other new homes near by were not selling, all fifty of the Stratford Acres homes were sold within 48 hours!



Here's how the Bridgeport Telegram, Bridgeport, Conn., reported the model home event the next day:

"An estimated 8400 persons visited the Stratford Acres Homes Model Home on Greenfield Avenue, Stratford, yesterday

afternoon, and all 50 homes planned by the firm already have been sold . . , the home sells for \$10,500."

#### Offered under "Packaged Mortgage" Plan

"Builders of the homes report that this is the first large-scale

#### Here's the big drawing card . . .

... the completely equipped General Electric Kitchen-Laundry that is included in the sales price of the Stratford Homes.

This worksaving General Electric Kitchen includes: Automatic Dishwasher-Sink and Disposall®, Automatic Washer, Hange, Refrigerator, Clock, and all-steel Cabincts. No wonder all 30 houses were sold within 38 hours! housing development in this part of the state to offer an allelectric kitchen fully equipped under a packaged mortgage...

#### A typical success pattern!

This experience with the General Electric equipped house is not unusual. Rather, it is typical of the sales miracles that are happening all over the country.

#### General Electric will help YOU, too!

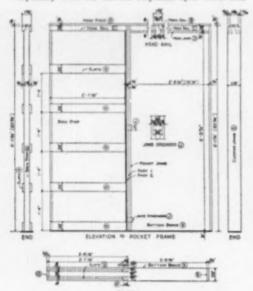
Why not let General Electric help pre-sell your houses? See your local General Electric distributor, or write to the Home Bureau, General Electric Company, Bridgeport 2, Conn.

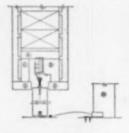


#### **Installation of Sliding Door Frames**

BUILDERS and architects are interested today in methods devoted to saving space in areas, such as walls especially with the current emphasis upon lower-cost

homes. The Sliding Door Unit adopted by the Fir Door Institute fits itself into a normal 2x4-inch-thick frame wall with assured ease of operations.





MOTE that the planter step (D) is temperarily natiod. This is done to allow inserting and

honging door. When door is hung the step is natiled permononity. Bight ungle metal quide, which engages groove in door bottom, should be femtened on floor in center of frome opening, and slightly forward of (RF) and (LF) jamb. The complete sliding door frome is constructed for 2x4 stendard wall construction. Innished thickness 5-6-inches with plaster step (D).

Any 1-5-inch-thick door may be specified for use with this frome. Doors 1-5-inch-thick cannot be used with this stock unit.







DETAILED method of hordwere installation



WHILE the header indicated at (A). (B) and (C) in the assembled drawing above and the circled detail at left comes as a complete unit. It is necessary to crew the metal track in place on which the door hungs, before any assembly is started.

Step No. 1: The first step in setting upthe frame is shown in Figure 1. Header comes from factory or a single unit. consisting of (A). (B) and (C). Nailing assembly should proceed as follows: Header (A) is is laid on horses, and rear jomb (G) is nailed to header. Hext nail front jumb (E) to header. Bottom brace (E) is nailed to the two jumbs (G) and (E).

Step No. 2: In Figure 2 in the assembly insert one of the split jambs (EF) in place, fitting into mortise in hooder. Put one (H) piece at (K) to give (LF) quick alignment. Then notil split jamb to bottom plate (K) and header to (A). Now notil spreaders (H) to (G) and (LF). Gluing apreaders to split jamb but not to back jamb is best practice. Following this, temporarily notil plaster stop (D) to pieces (B) and (C), placing between split jamb (LF) and trant jamb (E).

Step No. 2: For the final casembly turn over the frame tacking (such spreaders (!) in position on spilt (such (LF) as shown. Do not not!) (such spreaders on spreader. Spreader in needed so carpenter will not drive (suchs too close together when too-notling frame into place. Position (RF) lollowing precedure in step 2. The frame is now ready to be shipped with the package of hardware to the dealers yard.

THE HARVEY Sliding door track can be easily installed by the following directions.

1. Plate "A" should be mortised into top of door. Place plate "A" 5-½ inches from top edge of door to center of plate and scribe a line for position. Be sure the plate is centered and plumb with the top edges of door. (NOTE: For doors less than 24 inches wide—attach plates 3 inches from edge of door to center of plate.) Remove the plate and mortise to the depth of plate. Place plate in mortise and mark location of screw holes and center hole for adjusting bolt. Remove the plate and drill ½ inch hole—1-¼ inch deep, for the adjusting bolt.

 Screw plate (A) into position; insert adjusting bolt (B) into plate and thread down nut (C) until the bolt extends about ¼ inches above plate.

3. When both plates and bolts are mounted, set the door into position in the opening. Project the door about 1-½ inch into frame pocket to steady the door. Now shim up door about ½ inch from floor.

 Hook the hanger (D) onto the track groove directly above plate (A).
 Engage top slot of adjusting bolt into flange of hanger. Tighten nut on adjusting bolt so hanger is rigid.

Data and drawings coursesy Fir Door Institute



The B & G Hydre-Flo System matches the heat supply to the weather-so exactly that from Fall to Spring, indoor temperature is held constantly at the comfort level. And besides, it provides a year-'round supply of hot water for kitchen, laundry and bath.



#### NO JOB TOO BIG OR TOO SMALL

Hundreds of thousands of B & G Hydro-Flo Systems are in operation today. You'll find them in low-cost homes, apartments, industrial and commercial buildings, delivering the same comfort regardless of the size of the building.

#### S & G HYDRO-FLO HEATING EQUIPMENT

The basic units of a B is G Hudra-Fin System are simple and dependable—an assurance of long years of trouble-free sorvice. Any hot water builder—new or old—can be equipped with B is G Hudra-Fin Products.



BELL & GOSSET

#Bing. U. S. Put. Off

### 5 New Models! Delco-Heat Announces a

### Brilliantly Engineered Line of New Gas-Fired Conditionairs



#### "GA" Series Gas-Fired Conditionairs

	DIMENSIONS			ROWER		AGA APPROVED BATINGS BEU's PER HOUR (in Theusands)					
Model®	in. in	Wies	b Depth	87 M	CFM Mas.	Not sty.		LF-Air Ges		IP-Ges	
		ès.				be- god	Out- pet	to- put	Out- put	in- put	Out
GA 53	56.	22	26	550	310	62.5	50	42.5	50	60	46
GA 90	56	22	26	650	800	90	72	90	72	90	22
GA 120	56	261/2	26	840	1050	120	94	120	96	102	94
GA 150	56	3.5	26	620	1300	130	120	120	120	150	7.20
GA 120	54	48	36	800	1600	210	149	210	168	210	165

<sup>\*</sup>Anadobie with either 12 or 16 garge heat exchanges,

#### **Products of General Motors!**

Here is a new line of gas-fired forced warm air furnaces that will add sales appeal and make year new homes easier to sell!

Because for features, for value and for appearance—the new Delco-Heat "GA" Conditionairs challenge all competition!

The new "GA" Series includes 5 AGA-approved, forced warm air models—in both 12 and 16 gauge steel. Capacities are 62,500, 90,000, 120,000, 150,000, and 210,000 Beu input... a range that makes them applicable for all sizes of homes.

Note that the new "GA" Conditionals has extreme eyeappeal. It's compact, streamlined, and tastefully finished in Delco-green. Nothing protrudes—even the draft hood is concealed beneath the louvered panel.

Outstanding features of the "GA" Conditionair include the exclusive Multi-Rad heat exchanger—ribbon-type twin

burners — and a blowerfilter unit that is powered by Delco's famous Rigidframe motor.



Ribbon-type twin burners are engineered specifically for Multi-Rad sections. Made of cast iron, with expertly designed stainiess steel ribbins. Design assures more even flame, more complete combustion, positive ignition and quiet operation.



Exclusive Multi-Rad heat exchanger has continuous-weided construction. Each of the multiple sections completely encluses the flame from a separate burner head. This affords greater radiation area – extracts maximum heat troin turk.



#### New Homes sell better when they're equipped with Delco-Heat!

Delco-Heat manufactures a complete line of automatic home heating products—for all cytopes of fuels, all asseems of heating and all sizes of homes. And our engineering and siles department will be glad to

serve you in any way possible. For information about Delco-Heat products, write to Delco Appliance Division, Dept. AB-8, General Motors Corporation, Rochester I, New York.

Also manufacturers of Electric Water Systems for farms and homes-fractional horupower electric motors-electric automobile clocks,

Build extra Buy Appeal into every home with new Colotex Insulating Sheathing

IT'S STRONGER-MORE RIGID

and Double-Waterproofed!



### 1 Waterproofed Inside!

Every one of the millions of tough cone fibres in its insulating board care is integrally treated with a waterproofing compound during man-Macture.

### 2 Waterproofed Outside!

sides, and on all edges, with a thick, enduring "raincost" of speciallytreated asphalt which seak out mais



hing it gives you the " Wall's a stranger wall with SUILT-IN Insulation. Write teday New Celotex Insulating Sheathing enables you to build better, more salable homes at lower cost. Provides the effective sidewall insulation so necessary to keep a home cooler in summer, warmer and thriftier to heat in winter. Cuts both material and labor bills, because it insulates and builds, all at one time, at one lose cost. Far stronger, more rigid than ever. Quick and easy to apply. Negligible waste. No building paper needed.

Though double-testerproofed, new Celotex Insulating Sheathing has over twice the vapor permeability required by government agencies. Resists moisture penetration even under severe exposure during construction. Thus enables you to resume work more quickly after heaviest rain, cutting costly delays.

No other insulation gives all the ad-

vantages of Celotex Insulating Sheathing. For no other is made of long, remarkably strong Louisiana cane fibres. And no other is protected against fungus, dry rot and termites by the exclusive patented Ferox\* Process. Yet this strong rigid insulation - applied - coars NO MORE than ordinary sheathing!

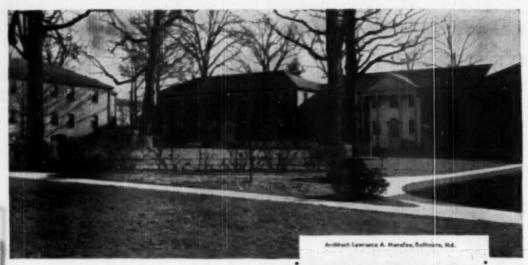
Send now for . we copy of the helpful new Celotex booklet, "How You Can Build Better Homes at Lower Cost." Gives full details on Celotex Double-Waterproofed Insulating Sheathing. The Celotex Corporation, Chicago 3,

TYPES AND SIZES: 25/32" Big Board, 4' wide x 8', 9', 10', 12' lengths; square 25/32" V-Type Center Matched, 2' wide x 8' long; senter matched on long edges 1/2" Big Board, 4' wide a 8', 9', 10', 12' lengths; square edges

To make your home easier to sell . . .

Build with genuine CELOTEX PRODUCTS

THE CELOTEX CORPORATION, CHICAGO 3, ILLINOIS



Donneybrook Corporation chooses

### ASBESTOS-CEMENT ROOFING SHINGLES

for appearance, long life, economical installation

When the Donneybrook Apartment Corporation chose K&M "Century" Shingles for the roofing on this modern Towson, Maryland, apartment project, there were good reasons for doing so—three good reasons.

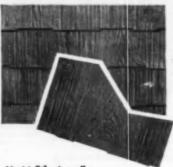
Read what William F. Chew, President of the company says: "We recognized in the use of 'Century' No. 5 Asbestos Roofing that (it) would not only give us the desired effect, but that long life and resistance to fire are features inherent in the product."

Commenting on the economical application of K&M Asbestos Shingles, Mr. Chew says, "We experienced on this installation, which involved over 1400 squares, that the No. 5 Shingles were not only easily, but quickly applied."

The experience of the Donneybrook Corporation proves again that your strongest sales points for K&M Shingles are attractive appearance, long life, and economy. Add to these the recognized freedom from maintenance, and you have a powerful sales story for any owner.

Tell your customers, too, about the "extras" in K&M "Century" Shingles. K&M Shingles resist weather, rust, rot, rodents, and fire. Their eye-pleasing colors—White, Black, Spanish Red, Surf Green, and Graytone—are built in.

With sales points like these, you can build your business—increase your profits—with K&M "Century" Asbestos-Cement Shingles. Ask your K&M Dealer for complete details, or write us direct.



Kam "Century"

ASSESTOS No. 5 SHINGLES USED IN ROOFING THE DONNEYBROOK APARTMENTS

American method appearance, random width, thatched butt construction. Each unit covers over 1 sq. ft. of exposed area. Application cost is low—only 90 shingles per square; 2 nails per shingle; self-aligning. Suitable for reroofing—apply directly over old wood shingles or composition roofs. Give complete weather protection on roof pitches as low as a 4" rise per foot.

#### KEASBEY & MATTISON

COMPANY · AMBLER · PENNSYLVANIA

Original manufacturers of Ashestas-Cement Shingles in this country

#### EDITORS' Round Table

FHA, with a few exceptions in a few of its regional offices from time to time, has been viewed by builders as a great aid in the field of building finance. That has been the picture from the time FHA was founded until recently.

NOW, it is reported by many sources, FHA seems to be losing its traditional policy of realism and cooperation.

IN ITS PLACE, say builders who note the change, is an increasing note of bureaucratic arbitrariness.

THE QUESTION is arising as to whether FHA is deliberately attempting to slow up the current home building wave by a policy of unrealistic valuations. If that is not the idea, said one builder, maybe they think they are indispensable, and can force us to go along on any terms they want to name.

EITHER WAY, he continued, the attitude, if it persists, may well put FHA out of business. The builder, after all, is a customer, and he will do business with FHA only as long as it is expedient to do so.

IF THERE is any basis for these complaints, FHA officials would be well advised to take them seriously, and examine their attitudes. It is almost universally conceded that FHA has been good for home building. It is not necessary to recite the well known achievements of the agency, but it is timely, in light of criticism that is increasing, to suggest to FHA that it take a good, long look at itself.

HOW MANY RETAIL lumber dealers will participate actively in National Home Week this year was not known in early June. NRLDA, however, was leaving no stone unturned to arouse interest, particularly among dealers in smaller towns where there is no formal organization of the home building industry,

NRLDA in May had issued a prospectus for independent dealer participation. The prospectus detailed the advantages that would accrue through participation, and set up two plans.

PLAN A is for dealers who build homes themselves or can set up cooperative arrangements with one or more builders for the construction of one or more exhibit homes.

(Continued on page 55)



· Kitchens in many of the Stapp homes include automatic electric laundry equipment for which ample, automatic hot water is assured by an Electric Water Heater of adequate size. There are also plenty of convenience outlets to make work easier.



... of course, It's ELECTRIC!

They're what people want! It pays to install Electric Water Heaters. They're completely automatic, clean, dependable in operation. They have money for builder and customer alike. Installation can be made anywhere-no flue or vent. This shortens hot water lines, cuts piping cost, prevents water waste. Fully-insulated storage tank for extra economy of operation, Safety assured by all electric, dependable temperature control.

they always sell.

necessary electrical circuits during

construction. The prices of his homes

range from \$12,000 to \$35,000, and

The experience of successful build-

ers confirms what sales and survey

figures show-a constantly growing

demand for Electric Water Heaters.

Install them in the houses you build,

#### BLECTRIC WATER HEATER SECTION

efacturers Association - 155 East 44th Street, New York 17, N. Y.

ALLCRAFT - BAUER - BRADFORD - CRAME-LINE SILECTRIC - CROSLEY - DESPFREEZE - FAIRBANKS-MODIS POWER - PENDIAIRE - GENTEAL ELECTRIC - HOTPOINT - HOTSTEEAM - JOHN WOOD - KELVINATOE LAWSON - MERTLAND - MOHARCH - NODGE - PENCO - BEX - RHESM - SEPCO - A. O. SMITH - THERMOHRAY

in a house wired for an Electric Range!

AUGUST, 1930



TRUSCON
METAL LATH
AND
ACCESSORIES

immediate
delivery assured



#### from many supply points

From Truscon Warehouses in

24 principal cities . . . from Truscon building
supply dealers in almost every community . . . from Truscon
Sales Offices at 47 major points . . . you get products and service
that give you the greatest possible assistance in attaining continuous,
profitable craftsmanship. • There are over 40 items in the Truscon
Quality Line, giving you the most complete group of metal lath and
accessories available from any single source. They are made by the
world's largest manufacturer of steel building products, assuring
you the highest standards of materials and workmanship,
Write for illustrated literature giving details
of entire line.



PREE Book on Truscon Metal Loth and Accessories, Write for it. The Truscon Steel Company Monetoniums a Complete Line of Motal Leth and Accessories, Including Practically All Items Norseony to Insure a First-Clean Plastering Job in Any Type of Building Construction. TRUSCON STEEL COMPANY

YOUNGSTOWN 1 OHIO

Worshouses and sales offices in principal citi



Mengel Stabilized Solid-Core Flush Doors employ an entirely unique and exclusive principle to give you a new standard of stability and dependability—and at strictly competitive prices.

Instead of attempting the impossible task of precenting expansion and contraction in wood. Mengel has developed a construction design which absorbs expansion and contraction within the core itself. All Mengel core members are deeply slotted at frequent intervals, both with and across the grain. The result is that the slots expand or contract in width, but the door remains stable?

Get all the facts, and see a cutaway sample. When you see the difference, you'll greatly prefer Mengel Stabilized Solid-Core Doors!

Also see ...
MENGEL HOLLOW CORE FLUSH DOORS
the finest products of their type on the market.

FOR FULL DETAILS, PLEASE JUST WRITE YOUR NAME AND ADDRESS IN MARGIN, AND MAIL TO

Plywood Division . THE MENGEL CO. . Louisville 1. Kentucky

QUALITY CONTROLLED ASPHALT TILE FLOORING

Because...
Only the Best Will Do!

### **MA·TI·CO**

#### SELECTED FOR USE THROUGHOUT THIS MODERN HOSPITAL

Day by day, the list of impressive MA-TI-CO Asphalt Tile installations continues to grow. More and more architects and builders are discovering that MA-TI-CO's outstanding advantages are the answer to almost every flooring problem.

MA-TI-CO assures long-lasting wear, resilience, economy, sanitation and easier, faster installation — qualities that make MA-TI-CO ideal for every type of installation. And MA-TI-CO's 27 rich, clear colors in solid tones and marbleized patterns — including five new "Petal Tones" — add charm to any decorating scheme — offer unlimited design possibilities.

Whatever your next project — apartment, theatre, industrial plant, church, hotel, commercial store, institution or private home — be sure to specify MA-Ti-CO Asphalt Tile. You couldn't choose a better all-around flooring.

#### GET TO KNOW MA-TI-CO

Write today for Ma-Ti-Co literature and

FORT HAMILTON VETERANS ADMINISTRATION HOSPITAL Breeklyn, N. Y.

Architect: Skidmore, Owings & Marelli Gen. Contractor: Caulshrell: Wingste Co. Flooring Contractor: Circle Rose: Co. Inc.



### PRECISION TESTED

to conform to Federa specifications for

Flexure

Indentation

Curling

Impact

### Round Table

(Continued from page 51)

THIS PLAN soggested that a dealer either have a house of his own ready for exhibit or arrange with one or more builders to have houses ready.

IT ALSO suggested arrangements with a local furniture dealer to furnish one or more houses, and listed publicity avenues available.

PLAN B was for dealers who do not build and for one reason or another could not arrange with a builder to have a house ready for exhibit.

THIS PLAN suggested open-house in the storage yard and showroom. Informative product displays were suggested and it was urged that local groups—women's clubs, church groups, Boy Scout Troops, etc. be invited to attend special demonstrations of materials and their uses.

IT IS NO SECRET that the retail distribution segment of the home building industry has suffered from lack of public relations to the extent that relatively few buyers are aware of the facilities and information not to mention materials and services—that the modern, progressive retail lumber yard has to offer the building public.

PUBLIC RELATIONS increasingly are being recognized as more telling when implemented at the local level, and perhaps reaching maximum effectiveness when done locally, and at the same time tied in with a national program. NRLDA points out to its affiliated locals and their members that National Home Week has a tremendous impetus because of the nation-wide character of the activity.

WHETHER a local dealer both cashes in for himself and gives his community the benefits of information highlighted during National Home Week depends upon his knowledge of the building problems and needs of his community, and his willingness to draft a program consistent with community tastes.

IN EARLY JUNE public relations counsels and editors were meeting in Washington to draft a manual of procedure designed to help builders, dealers and realtors in small communities to join forces for effective National Home Week activity.

(Continued on page 59)



### DRIVE-IT "300" cuts fastening costs 50% on Big Boston Apartment Job!

Over 9000 drive-pins were used at the Eastgate Apartments to fasten ceiling runner channels to concrete "at a saving of over 50%" writes the contractor.

Drive-It is one of the greatest cost-cutting tools ever invented. Hundreds of letters attest to the fact that seed or wood to concrete or steel fastening can be done with Drive-It at seeings of 30% to 83% in man-hour costs?

Every architect, building engineer and contractor should investigate the DRIVE-IT system of fastening. It is Underwriter Laboratories approved for efficiency and holding power and engineered for super-safe operation.

Clip the coupon below and let us tell you how you, too, can save agely with DRIVE-IT!



# Distinctive Corner Beauty MILCOR No.10 Bull Nose



From the world's most complete Corner Bead line

#### Ideal for sturdy, rounded corners

- ) Straight, true corners 26-gauge galvanized sheet steel.
- Expansion wing integral with nose of bead.
- Perfect plaster bond provides strong plaster key and sturdy reinforcement.
- Small package for easy handling boldly labeled for easy identification,

\*Seg U. S. Pol. O.

#### <NLAND>STEEL PRODUCTS COMPANY

Formerly Milcor Steel Company
4028 WEST BURNHAM STREET . MILWAUKEE 1, WISCONSIN

Consisted 14 Chin + Service 2 Mark + Storage Cry 8, Mr. + Los Angeles 22, Calif.



36 Setter Place, New York, 700 aluminum windows manufactured by A.B.C. Steel Equipment Co., Owner: Puter Deepler, Inc. Architect. Book & Rodd. Clemeral Contractors French J. Klaban

### 700 ALUMINUM WINDOWS

#### ... that never will need painting

For housing and commercial units that turn rental income into profits, be sure you include windows of Alcoa Aluminum. Then you'll know you have cut window maintenance costs to the bone.

Quality aluminum windows never need painting, can't shrink or swell; are easy to keep clean and attractive. Aluminum windows stay snug fitting and weathertight, can't rot or rust away. Strong, narrow window members improve appearance, let in more light.

Aluminum windows, made by leading manufacturers are available for every type of building—residential, commercial and industrial. For information on any application of aluminum, call your nearby Alcoa Sales Office or write ALUMINUM COMPANY OF AMERICA, 1485H Gulf Building, Pittsburgh 19, Pennsylvania.

### ALCOA ALUMINUM



TRANT - DOCT & PLATE - DRAPTS, DELICE & EXTRONOS - WHE - BOS - BAS - TRANS - PRI - SAME, DE & PREMIENT MICE CONTROL - FORENES - WHILE EXTRONOSE - FACULTS -



# Builders!

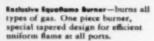
Get the "Specs" on the Duo-Therm gas floor furnaces!

They've got features that'll make you and your buyers warm friends.

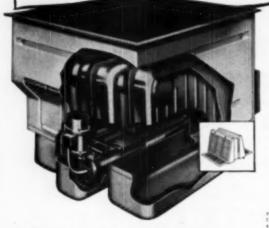


Revelutionery All-in-One Control.
All controls in a single, compact unit including sutomatic shut-off. Standard on all models. Another Duo-Therm first!

Exclusive Comfort Selector—Now! Eliminares on-and-off heating. A flip of the handy switch lets you adjust the low fire setting. A major improvement in thermostatic controls.



Generous 10 Year Warrenty.



Over 1,500,000 Warmly Satisfied Customers

### DUO-THERM Always the Leader

\$500 THIRD IS A registreed track work of Motor Wheel Garp. () 500

#### They're built with your problems in mind

- · Shipped to you ready to install.
- So compact only one joint need be cut on any installation.
- · Priced so competitively
- you won't believe it.
- Choice of BTU inputs from 35,000 to 60,000.
- Choice of floor or dual-wall registers on all models.
- All models available with either thermestatic or manual central.
- Designed so most service jobs can be handled from above floor.
- Twe series -4 models shallow and standard, to fit any home.
- Waterproofed to most regional FHA requirements.
- · AGA approved.

#### They're sold with a liberal Duo-Therm Builder Discount Plan

This entitles you to special single and quantity discounts to fit your needs.

Remember: This is more than another line of gas floor furnaces. These are gas floor furnaces built to the performance standards of the leader in modern heating appliances.

These are gas floor furnaces built to our high standard of quality—and incorporating the savings made possible by Duo-Therm precision mass production techniques.

For your most-for-your-money gas floor furnace investment, see your local Duo-Therm dealer or distributor. Or mail coupon below.

Duo-Therm Division, Motor Wheel Corporation, Dept. AB-8 Lansing 3, Michigan

Send me prome and without obligation complete information on the Duo-Therm Gas Ploor Furnace Builder Plan and all the specifications on the new line.

Firm\_\_\_\_

Firm address

#### EDITORS'

#### Round Table

(Continued from page 55)

RETAIL LUMBER DEALERS have for the past two years (the first National Home Week was in 1948) been prominently associated with the Week in the more than 100 major cities where great success has attended the observance. The aim of NRLDA this year is to extend the benefits of the Week to smaller communities.

THE LUMBER YARD, where there are no houses to be used for exhibit purposes, has the advantage of having in stock most of the important structural materials ordinarily used in home building. Lacking a new model house, the next best possibility is the yard with these materials on display, and with one or a series of dramatic demonstrations.

THE MANUAL under preparation in June, while probably too late in appearing to permit either a dealer or a builder in a small town to begin a full program with exhibit homes this year, was available in time to permit plans for effective work with the local lumber yard as the focal point for the community.

AT THE END OF MAY, 28 communities had turned down public housing by action of a city council or commission, and nine had turned it down by referendum vote. These figures do not include the entire state of California where a state-wide referendum refused public housing.

BENJAMIN F. FAIRLESS, president of United States Steel Corporation, recently delivered an address entitled, "Guilty Refore Trial." It is a brilliant refutation of the attack made on American industry, in which industry was charged with failure to achieve permanent, full employment. It also scores government methods aimed at eliminating the weaknesses of private enterprise. The speech, published in pamphlet form, should be read by everyone in a position to inform any segment of the public about what is back of socialistic schemes and what these schemes cost.

C.B. SWEET, NRLDA president, is urging families who expect to add more bedrooms to their houses to seek open and mortgages.

### SEE THIS NEW FEATURE!

in Winkler Oil and Gas Wall Furnaces



Note small space required for installation. Available in standard and other combinations, with smake outlet left, right of teat, grille and oil valve right or belt side.

for for batter heat distribution + Hem

saving battle . Quick and easy to install,

#### AUTOMATIC OIL-FIRED FLOOR FURNACES

A morvel of design for better beating at lower cost? Parced draft for more efficient operation, automotically adjusting isself to vorious firing rotes. Large warm size circulating fan upsed automotically adjusted to berning rate \* Larger hearing serface and flow passes \* Thermostatic control \* Chasis recented, entire unit removes for complete access. Adjustable burning rate —30,000 to 160,000 STU with No. 1 sei.

WRITE! But the facts on how to sell more and profess more with Winkler fine automatic heating products.

# WINKLER WALL AND FLOOR FURNACES FOR THE SMALL HOME

AUGUST, 1950

### **Designer solves** heat loss problem with new Reflective KIMSUL®

**GUSTAVE R. HEANE** 

87 IRWIN PLACE

TOTAL S. P. N. W.

Risburlp-Clark Corporation Second, Viscondia

dentiment.

The Starberg hose is bested by a rediant ceiling penal, In my opinion this is the most decirable of all besting systems, but it has selden been used in residential construction, make this ideal heating eyelem practical for medium-griced bones, a simple and economical way of preventing the heat hones, a simple and won long was meeded,

Beflective Rineal was the colution. Two layers were used over mericative kinesis was the colution. The layers were used over the ceiling with deed eir opine between; the lewer blanks with the slandsom fell cover facing down, the opper with fell facing gh, As redisct heat leaves the bare pipe, It hits against the fell curface and is reflected back on the plaster from where it is finally redisted down into the room. The ceiling panel con-stantly redistate heat against the flooring, thereby wereing it to almost the same temperature as itself. This was unused when to almost the came temperature as itself. This was preved then the planter was found to be drying from the floor up instead of from the ceiling dawn, had in mamor, this elevie insulation agatem reverses itself to keep out the best which would otherwwise penetrate into the house from the roof,

Very truly pours,



The fine new home of Mr. & Mrs. Molvin Stumberg, in Huntington, New York. Gustave R. Keunn, designer.

Each day, as the facts and figures about new Reflective KIMSUL® insulation become better known, more and more architects and builders specify it for residential construction. For in today's highly competitive market, maximum efficiency with low true cud is an absolute necessity.

New Reflective KIMSUL provides double-action resistance to heat loss, combining in a single highly efficient

unit the advantages of regular insulation and reflective insulation.

Reflective KIMSUL, too, gives you a vapor barrier that meets FHA requirements-greater strength and permanence in the non-sagging, non-settling stitched blanket—an 80% reduction in storage and handling costs with the smaller, lighter compressed packagenew sturdy tacking flanges to cut the time and expense of installation. It

resists fire, vermin and mold-provides fuel savings up to 44% - keeps a home as much as 15° cooler on hottest summer days.

For complete information, see Sweet's Architectural and Builders Catalogs, or write to Kimberly-Clark Corporation, Neenah, Wisconsin.

KIMBERLY-CLARK CORPORATION

Nesnah, Wisconsin

Now 2 types of KIMSUL insulation - Regular and Reflective



M 800 7 2 707 107 8 488





The ceiling is finished with Arontrong's Temlok Insulation Board. These big boards go up fast over furring strips. One piece will cover the entire width of most rooms. False beams hide the joints and add contrasting decoration.



The walls are finished with 10° x 32° Temlok Tile. Tiles are nailed or stapled to furring in new work or can be comended to old walls in remodeling. Temlok Plank is also ideal for walls, installed vertically or horizontally,

#### Here's an answer to cost problems

With today's problems of cost, there's a big demand for dry-wall construction that's practical, economical, and decorative.

The room above shows how Armstrong's Temlok® can be used to create the good-looking interiors your customers want and still stay within their budgets. On the ceiling of this room, large panels of Temlok Insulation Board were used. Temlok Tile was used for the distinctive styling of the walls. The addition of some wood moldings and false beams provided the finishing touches that helped to make the job so attractive.

Armstrong's Temlok is not only low in first cost, it's also an inexpensive material to install. In addi-

tion it has a durable, two-coat paint finish that's ironed on for extra smoothness,

Where costs are a problem, Temlok may be the answer. Get full details from your Armstrong lumber dealer or write direct to Armstrong Cork Company, 1608 Ross Street, Lancaster, Pennsylvania.



#### LOK-BEVEL JOINT

on Tendok Tile and Plank speeds installation, conceuls staples or nail-heads, and allows for expansion and contraction.

Armstrong's Temlok

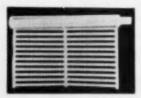


## NEW PRODUCTS Offered by Manufacturers

#### ALUMINUM LATH ROLLS

#### A883011

Alumath rails are five fast wide and 50 feet leng, consisting of aluminum laths spaced with openings ranging from 0 to two inches securely



rivered to stringers. Assembled rells are complete, ready to not out for use in constructing forth houses by simply nating in place. Laths are far use over paties, parches and as awnings ar in nurseries for sun control. Heary H. Raynolds, Dept. AB, 2541 Valencie St., Sonta Ana, Calif.

#### **EJECTOR TYPE PUMP**

#### A885014

Myers series: MM Ejectos are furnished in 11/s, 2 and 3 horsepower sizes for well lifts up to 300 feet. Flow of water is nuramatically divided in separation chamber to that water pumped by



lower impellers to negate is maintained at recivired pressure of 80 to 130 pounds. Impeller oberve separation chambox defirers water to greater lifts lifeal for crooked wells since unit has no right to wear out. Can be offset at any convenient location from well, so well pit on convenient location from well, so well pit on source. Fix wells up to throp inches in dismoster Equipped with single phase or three phase mates. F. E. Myers and Bros. Co., Dept. AB, Ashland, Ohio.

#### AIR-ENTRAINING AGENT ABSSOCT

Profess del entreuning agant developed for readymis compenies, black placts and concrete contractions a a liquid which, when added to concrete mistures, ontoins millions of nearmicroscopic, non-combining air bubbles. Auentreanment reduces bleeding and segregation, improves plasticity, and facilitates vibration. Increased plasticity, and facilitates vibration. Increased plasticity of concrete reduces breakage in black plants. Autolane Lubricants Co., Dept. AS, 1331 Wast Evon A.v., Denve 9, Cola.

#### BATT INSULATION

#### A885028

Rock wool both 21% inches thick of Saat-Pail insulation is backed with aluminum fail which stops 95 per cent of all radiant host trans-



mission. Made in 16 and 24-inch widths, bats have flanged adjas for easy installation. But is fragrical, meisture-proed, ref-proof and vermin-proof. Units are packaged in substantial cardibasisi cartans. Scalitte Insulation Manufacturing Corp., Dept. AB, Waukesha, Wis.

#### BRICK SIDING CUTTER

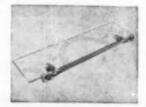
#### A885025

Unit cuts siding material up to 1/6 inches by feeding siding into blade as lever is worked, with three teeth on each side of blade. Blade is continuously alled by impregnated felt pads. Handle is 23 inches long. Total weight, seven pounds. Blade is tempered spring steel. Unit held steady while in use by placing foot on plate that folds out from lower handle. Can be attached to table through hales provided on undercarriage. O. Pearson Manufacturing Co., Dept. AB, Libb Villo. III.

#### DRAFTING INSTRUMENT

#### A883009

Paraline drafting instrument combines it are basic procision instrument the functions of V. square, straightedge, triangle, protractor, scale and parallel rules. It is constructed of sturdy



transporant section with critical moving parts machined to .002 inch tolerance. The instrument, which measures 10½ by 3.3 ½ is inche over-all; a completely self-contained and requires no attachments or board clamps. In fits readily into pocket for field or drawing toble see. Loamis Industrian, Dept. A8, 516 Park Way, Fladmant, Calif.

#### MASONRY SAW

#### A883002

Clipper mesonry sows here new Save A. Blade dial that instantly adjusts blade-cutting pressure to conform to hardness of material being cut. Three adjustments for brick or tite,



cencrete products, and glass and merbie are provided. 1950 Clipper models also have "Select-A-liatch adjustment for cutting head height and "Adjust-A-Cet" control of cutting head angle Potented stabilizer locks bead for high speed, production work. Clipper Manufacturing Co., Dept. AB. Kansos City B. Ma.

#### FOLDING DOOR

#### A885017

Plastic fabric-covered accordion-fold falding door has formed cornice which conceels topedge of closure and overhead track. Rust-ce ist-



ant frome has door handles at regular height. Foldoor is manufactured in both stack and made to-order sizes it wide choice of colors for use in homes, stores, offices and institutions. Holcomb and Hoke Manufacturing Co., Inc., Dept. AB, 1545 Van Buren St., Indianapolis 7, Ind.

#### GLAZING COMPOUND

#### A885001

New-Glaze glazing compound is applied like putty, but will not harden, crack or peel because oils in it are retained. Recommended for glazing wood or metal sook, satting plumbing, filling crack, bactwark, patching purposes. Macklanburg-Dencan Company, Dept. AB, Oklohoma City, Oklo.

### 85% of all prospective home owners want oak floors



## oak-starts the sale rolling

"When I put my money into a house, I want to know it's going to move fast. Substitute materials, I find, slow down sales—accepted materials speed them up.

"So, the first thing I show a house prospect is the oak flooring.

"I do that because it's the right way to start a sale. Those oak floors just naturally put them in the right frame of mind to look at the rest of the house favorably.

"That's because they wanted oak floors before they ever walked in. They're part of the 85% of all prospects who prefer oak floors over all others. So, it's no wonder I have oak in all my homes to start sales rolling."

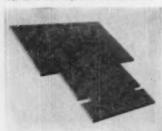


NATIONAL OAK FLOORING MANUFACTURERS!
ASSOCIATION - Dept. 5-8, Sterick Bldg. - Memphis 3, Tenn.

4885004

A883018

Even-flast lacking read shingle provides 100 per cant double coverage and 50 per cant triple coverage over real area. Lacking mechanism requires no metal clips since fixe slast on each



side of shingle slide under and over edge of adjaining shingle, locking it in four places. Lock provides for expension and contraction from temperature changes. Two noils only are required for each shingle though pattern results in each shingle being nailed in four places. Source requires 111 shingles weighing 235 pounds. Ever-fras shingle is enable to look pounds and weathergrain finishes. Soviett Division, Allied Chemical and Dye Corp., Dept. A8, 48 Ratter Street, Now York 6, N.V.

#### MULTI-BREAKER LOAD CENTER A885023

Type MO 8 multi-breaker load center is new puckaged with new method to eliminate meteority of stocking variety of complete slevices and



to simplify inventory and bookkeeping. Box and interior, covers (10 to cortrol) and "Ad-On" breaker units tome per corton) are packaged apparately. Required package for rustomer is misentified by removing filter of basic carron, adding "Ad-On" units and inserting cover in proc all filter. Square D Company, Dept. AB, Detroit, Mich.

#### CONTOUR COPY

A885012

Contour copying device consists of blodes with locking machanism, Warkman releases lock,



presses each blade against centour to be expend, then locks unit which holds contour for copying. Mode of deluminum. Available in resolve sizes from 4½, by 4½ to 15½ by 4½ inches. The Chois Company, Dept. AB, 555 Cateway Building. Minneapolis 1. Minn.

New Products continued page 134

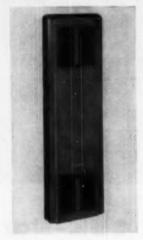
Formed steel lintels come in stack sizes of sizesch multiples and are corrupated for extra



strength. Lintel is made of nine and 11 gauge steel and is painted with balked on special prime coat. Stoelcraft Manufacturing Campany, Dept. AB, Rossmoyna, Ohio

#### PANEL WALL FURNACE

Panel gas wall turnaces are enade in single-wall 25,000 B.T.U. model and dual-wall 50,000 B.T.U. unit with outer jacket 17% inches wide



and 62% inches high. Inner unit fits between study, 16 inches on centers. A.C.A. approved unit is for use with natural, misnufactured or liquid pertaloum gas. Heat exchanger is suspended inside furnace. Outer jacker, finished in Hammertane baked enamel, is rust calor. Temos, Inc., Dept. Alt. Nashville 9, Tenn.

Place model Kwick-Sew of tilting orbor has 20 by 24-inch table and eight-inch saw blade. Features include cut-off stap, rip fence, angle



position lock, miner gouge, depth of cut control, angle set control, heavy-duty one-half h.p. capecinor type mater and heavy welded preused steel stand. Cuts any angle up to 45 degrees. All moving parts turn in lubricated boll bearings. Emirck, Inc., Dept. A8, 1724 Clinton Ave., Kalamaso. Mich.

#### SEALED HOCK WOOL BLANKET ABS3022

Gold Bond mot thick sealed rack wool blanker is produced in 15-inch widths to fit standard specing of studdings, in eight foot lengths.



Widths of 19 and 23 inches and greater tengths are available on special order. Frequest rack word adheres to all four sides all specially treated paper enclosure which provides breather cover an three sides and vapor barrier an fourth side. Blanket has it factor of 27 and senductiones of 0.18 and is lightweight. National Cyssum Company, Dept. AB, Buffalo 2, N.Y.

#### INSERT NUMBERS AND MAIL COUPON FOR

American Builder, 79 W. Monroe Street, Chicago 3, Illinois

When you address inquiries direct to manufacturers concerning a new product described here, please mention that you saw it described in American Builder

# NOW! ... Johns-Manville Super-Felt Insulations come in 3 types

-all made of the famous, firmly felted Johns-Manville Rock Wool



And remember, J-M Home Insulation is easier to sell because

People think of Johns-Manville FIRST

\*For home insulation, the public preference for Johns-Manville is 40 to 1, according to nationwide public opinion surveys



#### For Those Who Expect a Lot for Their Money

You can't see all the quality features of Eljer Brass Fittings unless, of course, you subject them to various laboratory tests. But quality is there . . . and to such a degree that your clients, who are entitled to expect a lot for their money, will be more than satisfied.

The finest of materials . . . modern, efficient equipment and machinery . . . craftsmen highly skilled in their trades . . . all contribute to this high standard of quality established by Eljer. To you, this means

It pays you, it pays us-

dependability and service from the items you specify. So be sure to specify the best . . . specify Eljer Fittings . . . designed for Eljer Fixtures.

#### A COMPLETE LINE

The fitting illustrated above . . E-9430-R, C. P. Over-rim Both Filler with Drop Spaul ... is a popular ... in the Bigs's complete brass line. All moving parts are completely and early renewable. For fall usercriptions of all Eljer Fittings ask your Eljer Distributor for a copy of Eljer's Brass Goods Catalog or write to Eljer Co., Ford City, Po.



because we specialize in Plumbing Fixtures and Brass





### **ASSOCIATIONS**

Their Plans and Activities



### Membership Drive Adds 202 To Long Island Institute

A 94 per cent increase in membership was recorded by the Long Island Home Builders Institute in the five months, Feb. 1 to July 1, it is reported by Leonard L. Frank, president, who "would not be surprised to see membership tripled by the time of the next NAHB convention."

Seventy-nine per cent of the membership gain was registered between May 15 and July I as a result of a contest among 16 four-man teams.

Starting the fiscal year Feb. 1 with 214 members, the Long Island affiliate of the NAHB added 43 builder and associate members through staff solicitation in the 14 weeks ending May 15. In the next seven weeks, with the contest under way, 159 new members were added, 37 of them being active builders. This brought total membership on July 1 to 416, of which 202 were signed since Feb. 1.

Scheduled to end July 31, the contest was organized like a baseball pennant race. Each builder member counted as 5 "runs"; a sustaining associate at \$500 annually, 10 "runs"; \$250 contributing associate, 5; each \$100 special associate, 2, and a \$60 minimum associate as 1 "run."

A long list of cash and merchandise prizes were offered, chief of which was \$200 toward expenses of attending the annual NAHB convention next January for each contestant scoring 20 "rum." By scoring 10 additional rums with two new builder members, each winner of the trip to Chicago was allowed \$400 toward expenses of himself and wife or associate.

#### Dallas Association Gets Big Housing Center

The offices of the Home Builders Association of Dallas have been moved to the Home Builders Auditorium, a 12,000 square-foot building where a housing center has been established. H. Leslie Hdl, association president, said that a vigorous promotional campasign has been launched with a goal of attracting 5,000 visitors a month to exhibits in the center.

The auditorium was officially opened August 1 with 40 exhibits.

#### Roy Healy Named Milwaukee Executive Vice President

The appointment of Roy F. Healy as executive vice president of the Milwau-kee Builders Association has been announced by the association psesident, Elton A. Schultz.

Healy was formerly executive assistant of the Chicago Metropolitan Home Builders Association, which he joined in 1944. Prior to that he was secretary of the Sycamore, Ill., "Own Your Own Home Association."

While with the Chicago Association he was known as an authority on housing projects in the area. He helped organize and served as secretary for the Home Builders Association of Northern Indiana and the Home Builders Association of the Fox River Valley, two groups which are sub-shapters of the Chicago chapter, with a single membership providing affiliation with the local, the Chicago Metropolitan and the national.

The Milwaukee association is one of NAHB's largest and most active. In 1949 it enrolled 248 new members to take first prize in its bracket of the national membership contest.

#### 'Step Up Sales' Clinics Held By Northwestern, Iowa Dealer Groups

The first "Step Up Sales" clinic sponsored by the Northwestern and Iowa Lumbermen's Associations and held recently in Sioux Falls, S.D., attracted more than 150 lumber and building material dealers from Iowa, Minnesota and South Dakota.

The program of one-day sales clinics replaces the district meetings formerly held each year throughout the territory. The clinics are conducted by William H. Badeaux, secretary of the two associations, and F.P. Longeway and R.H. Laird of the field staff.

Hadeaux said that interest in the first clinic was not limited to newcommers in the business, attendance including a number of veteran dealers. One was 80-year old C. W. Derr of Mitchell, S.D., who said that he still had a lot to learn about the business.

The "Step Up Sales" plan covers eight topics. Customers' buying motives, opening the sale, telling your sales story, showing and demonstrating, outselling competition, overcoming objections, closing the sale, and planning for better results. Training aids include slide films, illustrated text booklets and test questionnaires.



IOWA. Minnesota and South Dakota doalers assemble for first "Step Up Sales" clinic

#### Past Presidents Club Organized in Detroit

The recently-organized Past Presidents Club of the Builders Association of Metropolitan Detroit, whose membership is limited to persons who have beaded the group in its ZZ-year history, has named S. J. Christie, association president from 1931 to 1934, club president. Other club officers are Harry J. Durbin, 1939 association president, vice president in 1937-38 and currently a member of the city plan commission, treasurer; and Frank A. Quinlan, 1935-36 association president, secretary.

Among the aims of the club is development of closer cooperation between components of the industry, particularly builders, bankers, lumber dealers and retail outlets. Another function is to make former leaders' experience and training available to the association as an organized advisory budy. The club plans to meet monthly.

#### Woodwork Jobbers Meeting

The ninth annual meeting of the Woodwork Jobbers Service Bureau will be held Sept. 13-16 at the Chalfonte-Haddan Hall Hotel, Atlantic City, N.J.



#### Cy Sweet Says -

G. B. SWELT, President, National Betstil Lumber Dealers Association

#### AFTER THE CURRENT BOOM . . . A NEW MULTI-MILLION MARKET

A shulti-million dollar plus market is awaiting the building material dealers of the country when the correct building boom starts to taper

When we bear in mind that half of all our 44,000,000 homes are 30 years old or older, it is rather easy to visualize the tremendous market these older homes offer.

A great many people in this country believe we can't make our private enterprise system work. They do not question our ability to mass produce, but they do question our ability to solve the problem of mass distribution.

This is a challenge to our industry, for whether we continue to prosper will depend in large measure on how far the 78 per cent of the United States families, whose incomes are less than \$5,000 per year, can safely stretch their baying dollars. Installment credit has been the magic word that has helped fill the gap between our tremendous productive capacity and the purchasing power of our people. And it must continue to be if the wheels of industry are to be kept turning at top speed.

There is a relatively new type of installment credit that stretches the home-owner's dollar from three to six times as far as traditional consumer credit. It is the open-end mortgage which allows long-term amortization for remodeling and repairing instead of the now widely used short term FHA Title I type of loan. There is nothing very abstruse or complicated about the plan, it simply permits the mortgagor to reborrow additional sums from his lending institution for the purpose of repair, remodeling or improvement of the structure covered by the mortgage. It does however, allow the borrower to make the desired improvements without over-extending himself on monthly payments.

If properly merchandised, this credit tool will serve as a strong consumic bolster and as a trump card for the building material dealers in the struggle for the consumer's dollar. The open-out mortgage can be the means of praviding the dealers with a considerable amount of plus business which might not be obtained in any other way and which may be sorely needed in the next year or so.

#### 200 Visitors Attend Dallas Regional Builders Conference

More than 200 visiting home builders, including top NAHB officers, attended the recent Texas-Oklahoma regional conference at the Baker Hotel, Dallas.

Panel discussions included mortgage and construction finance, public relations and advertising, orw biossing legislation, land planning and house designing, economy housing and low rentals and public housing and slum clearance.

Among the national association guests who participated in the program were President Thomas P. Coogan, Miami; First Vice President W. P. Atkinson, Oklahoma City; Second Vice President Atan Brockbank, Salt Lake City; Executive Vice President Frank W. Cortright, Washington, D.C.; Director David D. Bohannon, San Francisco; Franklin L. Burns, Denver, regional vice president for Colorado and Wyoming; and E. Earl

Colomb, New Orleans, regional vice president for Arkansas, Louisiana and Mississippi.

One of the meeting's social highlights was the "Home Builders Stompede" at Pappy's Showland night club which approximately 900 persons attended.

Members of the conference program committee were H. Leslie Hill, chairman; Vernon S. Smith, Avery Mays, E. P. Lamberth, Hub Hill and Edward Dicker.

#### Junior Group Organized

Plans for organizing a junior association, composed of young men who are members of the Chicago Metropolitan Home Builders Association, are being made by a special committee representing the younger men.

The committee, appointed at a recent organization meeting, consists of Chairman Robert H. Wilson, Laurence Hollander, William Jones, William McCulloch, Brittain C. MacIsaacs and Edward Sawyer.

#### Paid Attendance Hits Peak At Buffalo Home Show

Paid attendance at the 1950 home show of the Niagara Frontier Builders' Association, Buffalo, N.Y., was the largest in the history of the event, according to George F. Brunner, executive vice president. The total attendance was 85,000 and there were 200 exhibitors.



Buffalo "Apartment Home" of 1950

One of the most popular show exhibits was the "Apartment Home of 1950," so called because it was planned to combin-for a small family the all around livability of a full-sized home with the conveniences of an apartment. Brunner reported that an actual count of 51,000 person-visited the home and that many thousands-more were turned away or became discouraged because of the long waiting line.

Another feature was an 8,000 squarfost exhibit titled the "Electric Living Round-up," at which appliance dealers and distributors were dressed in Western regalia and music was furnished by a three-piece cowboy band.

At the association booth a booklet, "1950 Homes on Parade," was distributed to the public. It contained pictures and plans of homes going up in the area, a map showing how to reach them, and names of all association members.

Innovations at the 1950 show included a greenhouse, a 35-foot cruiser, a small summer cottage, model homes built to scale and a concrete masonry home.

#### Plywood Promotion Mapped At Douglas Fir Meeting

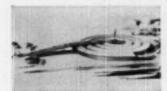
In the keynote address of the recent annual meeting of the Douglas Fir Phywood: Association at Tacoma, Wash, Frost Snyder, who was re-elected president, emphasized that "continued hardhitting advertising and plywood performance will maintain plywood's preferred status as America's busiest building material in the highly competitive years ahead."

Speaking of the future of the plywood industry, now producing a record volume of 45,000,000 feet of panels a week, Snyder said the manufacturers are now jointly spending one million dollars to develop new markets and uses.

Elected vice president of the group was Victor Olson of Olympia, Wash. Other officers are Charles M. Duccy, North Bend, Wash., secretary; J. P. Simpson, Tacoma, treasurer; and O. Harry Schruder, Tacoma, managing director.

#### New-Type Exhibition Building to be NAREB Convention Feature

A new feature of the 43rd annual convention of the National Association of Real Estate Boards, scheduled for Miami Beach, Fia., Nev. 12-19, will be the first annual National Realtors' Exhibition, Henry G. Waltemade, New York, chairman of the convention and exhibition committee, said, in announcing convention plans, that approximately 6,000 realtors' representing the 45,000 NAREB membership, are expected to attend.



ARCHITECT'S drawing of the "Spycroma." designed especially to house exhibits at NAREB'S annual convention at Miami

Exhibits will be housed in a building called the "Spyorama," a temporary structure especially built for the convention. The Spyorama will consist of a continuing spiral of display booths beginning at the center of the building, entered at that point by a ramp constructed from the exterior to span the roof. The plan of the building provides for a steady flow of traffic, with exhibits arranged along the viewer's right. It was designed by Elmer J. Schrang. Milwaukee Realtor and a member of the American Institute of Architects.

Exhibits will cover the fields of building materials; apartment, home, and office equipment and maintenance; business machines and systems; mortgage loans; and insurance.

(Continued on page 229)

#### 'Buckeye Builder' New Ohio Publication

A new magazine, the "Buckeye Builder," is now being published by the Ohio Home Builders Association is its official organ. Current circulation is about 5,000, A. H. Palace, managing editor and asocciation enecutive secretary of the state group, has reported, with possibly twice that number expected by the end of the year.

The monthly enagazine has a two-color cover and standard 7s.10-inch printed pages. Other members of the staff are Paul E. Sterner, editor; Arthur H. Philips, advertising manager; Paul O. Jones, publisher's representative; and Wilson L. Moon, business manager.

#### **Cortright's Column**

FRANK W. CORTRIGHT. Executive Vice President National Association of Home Builders of the United States



#### WAR AND THE BUILDING INDUSTRY

Every one in Washington is on edge about the Korean war. Whether it will fixele out—drag along for months—or explode into a world conflict is anybody's guesa.

In any event, it has awakened us to the necessity of making war plans during times of peace. Nothing is more unpalatable and unpopular than crying "Wolf, wolff"—and preparing to shoot the wolf down if he does jump from the bushes unexpectedly.

That is just what the National Security Resources Board has been doing here in Washington for many months. Their budget and personnel have been inadequate. Their reception by both government and industry has been indifferent to say the least but, now that American boys are being killed every day in Korea, their job has moved to the number one position.

Not only has NSRB been making a careful study of the successes and failures of World War II in matters of civilian defense and war mobilization, but, anticipating an atomic war, they have sent roen to Japan, England and Germany to learn how to take care of people in bombed-out areas.

This is where the housing industry comes in. One part of the job would be the construction of war housing for new war plants, shippards and military installations, but in an all-out war, with American industrial centers and seaports heavily bombed, the erection of temporary shelter and the patching up of damaged structures would constitute a staggering task.

Daily we are asked what will happen to home building if an all-out worldwide conflict started. Of course, no one can answer such questions as yet. It will depend upon how serious the situation is and what the thinking of the various government officials in power at such a time may be. In a recent issue of NAHB's Washington Letter, this reporter assumed the risk of guessing answers to the most generally asked questions, as follows:

1. IN THE EVENT OF ALL-OUT WAR, WOULD CURRENT HOME CONSTRUCTION BE STOPPED?

No further construction could be started but housing well under way would probably be permitted to be completed on a minimum basis.

- WOULD MATERIALS AND MANPOWER BE ALLOCATED?
   Materials would undoubtedly be allocated on a priority basis following the pattern of World War II.
- 3. WHAT KIND OF HOUSING COULD BE BUILT?

Only minimum war housing under rigid governmental control for inmigrant war workers and military personnel.

4. WOULD OCCUPANCY BE CONTROLLED?

Rigid restriction and occupancy controls would be instituted. There would be a minimum of requisition and maximum of conversion.

5. WHAT ABOUT PREFAB AND MOBILE HOUSING?

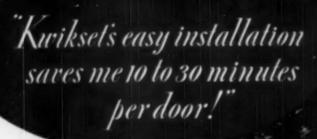
Most careful study is now being given to the industry's facilities to construct housing in non-military areas for rapid shipment into areas where on-site building labor is in minimum supply or is needed for war purposes.

6. IN THE EVENT OF BOMBING, WHAT TEMPORARY CARE WILL BE TAKEN OF VICTIMS?

This is NSRB's number one problem. Temporary sharing of all existing facilities would be required and elaborate provision made for temporary shelter of various kinds, including the mobile shelter of trailers, demountables, and even tent cities.

The above questions are, of course, being threshed out now in Washing-

(Continued on page 239)



#### Builder's Time Studies Show that Kwikset Locks are the World's Fastest and Easiest Locks to Install!\*

More and more builders all over America are recognizing the cost-seeing features of Kwikset locks. They've found that Kwikset locks save them money two ways. First, Kwikset locks cost less to buy. Second, Kwikset locks cost less to install. Typical of the enthusiastic acceptance of Kwikset's simplified, time-saving installation is this unsolicited statement by a large builder of F.H.A. insured tract housing: "I make it a point to buy Kwikset for every door of every house I build. We've made detailed time studies of the length of time to install all popular residential locks and have found that Kwikset saves our men 10 to 30 minutes per door on installation time. The case of installation coupled with low cost assures our continued use of Kwikset locks."

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- ✓ Kwikset's unique installation jig assures exact right angle boles—speeds perfect installation
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- Kwikset's novel construction automatically compensates for different door thicknesses
   saves installation time

Combine these time-saving installation features with Kwikset's striking beauty, high quality and low cost and there is little wonder why more and more builders say. "Kwikset locks save me money when I hay them... save me money when I install them!"

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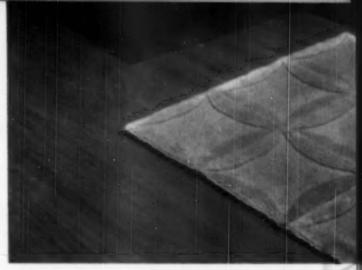


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Above, STRIP: Center, BLOCK: Bottom, RANCH PLANK













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#### What Is Maximum Volume?

A QUESTION often asked since 1945 is "What is the capacity of the home building industry in new units a year?" Both guesses and estimates have been made, but there has been no sound basis for a statistical study. Now, in light of what has transpired since the first of this year, there is beginning to develop some evidence that might establish the answer to the question as a little in excess of one million, or possibly a little less than one million.

It will be remembered that 1949 saw a record of 1,019,000 starts. General opinion was that the figure was not industry's maximum capacity. It is well known, however, that the record was established at a sacrifice of an unknown volume of needed remodeling and major repair work. How many starts would have been made if builders had taken care of remodeling work can only be guessed at. On the other hand, an unmeasured quantity of both material and skilled labor was consumed on public works projects. It is possible that had these been sacrificed also, the home building total might have been larger.

Conceding, however, that a certain volume of public works construction and beavy industrial and commercial building has to be done to keep abreas, of the needs of a million new home owners, home building at the end of the first five months of 1950 seems to have pegged its capacity at roughly 1,000,000 starts a year. Each of the first five months set a new record for starts compared with the same month in any other year. The result was serious dislocation by the middle of June. Excavators in many parts of the country were far behind their orders. Cement workers were unable to keep up with the demand for new foundations, and serious cement shortages were being reported. Carpenters, apparently geared for higher production, were being slowed, and short weeks were being worked.

Where weather broke right for two-shift excavation work, carpenters and bricklayers were being paid premium wages by builders who could afford to go above scale to keep high-grade workmen, and sub-standard workers were finding jobs. In New York plumbing supplies were short, iron pipe was on allocation, and soil pipe was difficult to get. Of course, strikes in some of the major lumber mills and inclement weather in most of the lumber producing areas had created serious lumber shortages with accompanying sharp increases in prices. This condition might be said to be unusual, how ever, and to have no bearing on the capacity of the industry.

As 1950 started it appeared that the year would beat the record of 1949 by about 20 per cent. Viewing the dislocations that began to show up in June there is good reason to believe that neither skilled manpower nor materials production can be expanded as rapidly as 20 per cent in a few months without causing automatic slow-downs that peg the industry's maximum capacity at about the figure established last year. With this in mind the public housers' demand for 2,000,000 units a year seems even more ridiculous than it did four years ago. And it might be added that about all the current public housing program will do is slow down much needed privale construction.

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AN effective use of stone is employed in qurage wall which forms part of entrance forecourt. Stone is holdly terminated at door

THE GARAGE, an essential component of modern living in the United States today, is being neglected in the current record production of new homes. In a preponderant percentage of the low priced houses it is eliminated altogether. When it is included, even in the high priced houses, there is frequently a lack of serious planning of the unit for the purposes it is to fulfill.

Actually, the garage in the modern home, especially where there is no basement, serves a multitude of purposes in addition to protecting the automobile from the weather and other possible sources of damage. Much improvement in the planning and erection of garages could be expected if they could be thought of as utility buildings for storing cars and other equipment required in the protection and maintenance of a modern home plus, even, certain recreational facilities.

In contrast to the apartment dweller, who has no maintenance problems either on his dwelling or his grounds, the home owner as a general If garages would be thought of as utility buildings for storing, at ground level, equipment required in the maintenance of a home and its grounds as well as for protecting the family car, improved garage plans would result

rule must have some place to house, at ground level, his lawn and garden equipment plus a host of other items. A partial list includes such family appurtenances as lawn furniture, bicycles and outdoor toys, lawn roller, lawn hose, fertilizer, lawn mower, storm sash or screens, step ladder and in many instances an extension ladder, firewood where there are fireplaces, garden tools, toboggans, sleds, skiis, assorted lumber for odd jobs, awnings, cans of paint, several types of shovels, plus all the odd items most automobile owners accumulate to wash and main-

tain the finish on the family car. Even the best housekeepers, men or women, find it virtually impossible to find adequate storage space for the above essentials on the premises of the average American single-family dwelling.

The logical, most convenient and most economical place to provide room for storing the appurtenances of home ownership is the garage. This is the most convenient providing there is a good one and that it is properly planned and well built.

Although no figures have been compiled on the subject, industry authorities agree that a large majority of the low-priced houses erected since the war do not have garages. Many originally erected and sold without garages, have since had them added by the purchasers. Guesses on the percentage of single-family houses less than five years old with garages vary all the way from 30 to 50 per cent. During the last quarter of 1949 the Bureau of Labor Statistics conducted surveys on housing characteristics in fifteen major cities. Ten of these reports were completed at the time this

was written and show that in the ten major cities reported on, 53.3 per cent of the single-family houses in all price classes erected during the last quarter of 1949 had garages. The cities and the number of new single-family houses erected with garages during the last three months of last year are as follows:

New York ...... 37 per cent Chicago ..... 16 per cent Los Angeles .... 88 per cent San Francisco (one car) .... 78 per cent

 (two car)
 19 per cent

 Philadelphia
 67 per cent

 Pittsburgh
 89 per cent

 Washington, D.C.
 8 per cent

 Dallas
 36 per cent

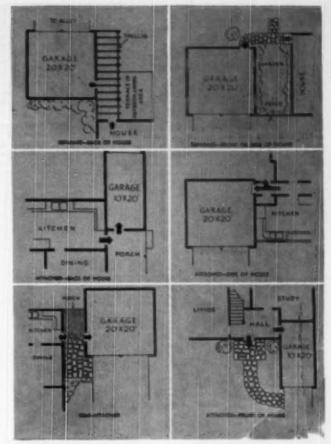
 Atlanta
 36 per cent

 Miami
 59 per cent

From this it is obvious that in overcoming the postwar housing shortage, the industry has created a garage shortage. There will be a good volume of single and double, attached and detached garages erected to take care of this demand alone in the next few years.

When the functions of a garage as a utility building for the home are kept in mind, the planning of that unit proceeds beyond its original, prime function of protecting the automobile. First of all, space for the car must be at least wide enough to permit car doors to be opened so individuals may get in and out comfortably when the car is in the garage. Ten feet is about the minimum width for this. It must be at least long enough so a person can get around the car with the garage door closed. That means at least six inches in front and about 18 inches clearance in the rear. With the exception of about three of the largest American passenger cars made, 20 feet is adequate for this. The ceiling or deck above the car should be at least seven feet six inches above the floor. These figures approximate the minimum requirements for housing the family car. FHA requirements in many areas specify minimum inside width of 9 feet 6 inches and length of 19 feet.

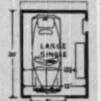
Size of the lot and location of the garage determine largely where additional space can be provided in the unit so it can properly fulfill its function as a utility building. If it must be single-car width then the extra space should be added lengthwise. Even though the family may never intend to have two cars, a double-car 20-foot wide unit is desirable where space permits. Variations in providing extra storage and recreational space in garages can take an infinite number of steps in different directions from these two standard setups.



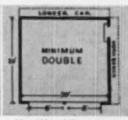
IMPORTANCE of the location of the qurage on the home sits should nover he underestimated. Easy and prefecubly protected access to the busement or carvins portions of the house odds immeasurably to the full use of the qurage as a utility hullding. The driveway should always he planned at the same time the qurage is planned. Tricky turns, bad quades and obstructed views of danger spots are

Drawings courtesy Fir Door Institute

some of the results of poor driveway pleaning. A one-car driveway should be at local eight feet wide on straight stratches and 11 feet wide on the curves. Requediess of goods there should always be a level area at least 15 feet long in front of the garage to facilitate parking without the danger of the car moving because brakes are not set or because of tampering

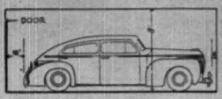


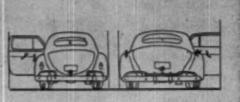




A LARGE single garage should be at least 14 or 15 feet wide. This permits deers on both sides of the our to be opened comfortably and still allow about two less for storage or a work beach along one side. The recommended minimum size for a single garage is 10x30 feet. If it must be

hept to thin width and if storage space is desired, the entra area can in most exace, he added to the length of the narrow structure. The recommended minimum size for a double garage to 20x20 feet. With two cars this leaves on tendequete amount of storage space but ample room for the cars





IN PLANNING for space to be occupied by the automobile in a gamage where space is also allocated to storage of tools, toys and equipment, those disgrams illustrate the points on the our to be measured. In figuring length, allow at least six inches in front of the our and 18 lachos at the rear. A clear ceiling 7 jost

and 6 inches in height is adequate. The diagrams above show a medium-sized and a large our with one door on each completely open. The width should permit our doors to open fully without banging the garage wall, a work banch, bicycles or other stored issue. If a work banch to doolred, 2 test is about minimum width

Make and Model		Wheelbear (Instead	Over all long including braye (londer)	Confession of the Confession o	H	Part of the state	Oracle Control
Buick 40 Buick 50	3710	121 1/2	204	79 2/S 80	43 9/10 43 9/10	7 3/4 7 3/4	6 13/14
Buick 70	4230	130 1/4	212 4/5	90	64 2/3	81/4	7 9/32
Codifice 61	2670	122	211.7/8	801/8	62	8.34	8.34
Codillac 62	4010	126	215 7/8	80 1/8	42 11/16	8.24	8.34
Codition 60. Codition 79	4150	130	234 7/8	80 1/8 80 1/8	64 1/10	8.24	8.44
Chevrolet Styletine	3075	119	197	74	65 7/6	7 13/16	8 1/16
Chevrolet Ficetion	3083	115	197	74	66 3/15	7 13/14	8 1/16
Chrysler C-48	3655	125 1/2	207 5/8	65.5/8		8.3/8	
Chrysler C-49	4176	121 1/2	213.5/8	76		8.5/8	91/2
Chrysler C-St)	9225	145.1/2	230 1/4				10 5/8
Crasley CD	1363	80	148 1/4	50	97 91	61/2	41/2
Createy Hotshot	1095	85	137	31	-	61/2	
Do Sate 5-14	3530	125 1/2	207	74 1/8		81/4	
Dodge 033 Dodge 034	3390	115	196 1/4 202 7/8	73 74 3/8		81/8	91/4
Ford 6 CHA	3048	114	196 7/10	72.6	64 7/10	81/5	7 9/10
Ford 8 OBA	3083	114	196 7/10	72.8	66 7/10	8 1/8	7 9/10
1961 Freser	3538	122 1/2	211 3/6	72 7/8	64 1/2		
Median 500	3510	1197/8	201 1/2	77 1/16	60 3/8		
Mudsen 901	35/90	134	206 2/16	77 21 /32	60 2/8	81/8	
Hudson 502	3655	124	206 3/14	77 21/33	60 3/8	81/8	
Hudson 103 Hudson 104	3475	124	208 3/16	77 21/33 77 21/33	60 3/8	01/0	:
1951 Koloer	3123	118 1/2	208 1/4	74	40 1/4	****	
			213	76 1 /2	65 3/10	7 2/3	8 7/10
Lincoln Cosmo	4293	121	220 1/2	77 4/5	64 1/5	71/2	8 7/10
Mercury V-8 OCM	3367	110	306 8/10	76.1/2	64 8/10	6.4/3	8 1/10
Nech Bembler	2430	100	175 7/8	74.1/2	59 3/4		
Nesh Stotramon	1950	112	201	77 1/2	63	7 3/4	71/4
Nesh Amb. 6	3305	121	210	77 1/2	63 1/2		71/2
Oldsmobile 74	3331	119 1/2	303	75 3/16	42 7/14	81/8	81/8
Oldsmobile 88	3531	119 1/2	302	75 3/16	63 19/32		8.9/32
Oldsmobile 98	1790	125	213	76 3/4	63 27/32		87/16
Fackerd			******	77 15/32	66 1/16	0 19/22	71/2
8 & Dix 8 2301-11 Super 9 2302-32	3850	120	211 11/16	77 15 32	64 1/16	8 15/32	71/2
Curiom # 1304-33	4270	127	213 1/4	77 13/32	64 3/32	8 3/16	7 15/10
Plymouth P 19	2951	939	186 1/2	72.7/8		71/2	
Flymouth F 30	3009	118 1/2	192 5/8	73 5/9			91/4
Puntine 25	2275	126	903 1/2	PS 11/16	63 1/4	211/16	81/8
Pantin: 27	3340	120	302 1/2	75 11/16	63 1/4	81/8	8 11/16
Studeboker							
Champion 90	2790	113	197 1/4	49.7/9	41 1/2		81/4
Commander 17A	3255	120	207 7 8	49 9/16	62 1/4	8.3/16	8 9/16
Willys Q. 4725W	2754	104	175 2/4	68 13/16	72 11/16	8 3/9	9 27/32
Willys 0. 4725W	2845	104	175 3/4	68 13/16	72 11/16	0.3/0	9 27/33

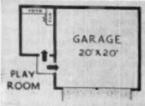
The Urban Land Institute in its "Community Builders Handbook" says: "It is recommended that storage space be provided in garages even where houses contain basements. Provision of storage space in the garage for tools, garden furniture, and similar articles is desirable. For single car garages, it has been found feasible to add five to six feet to the length of the garage for this purpose. This is preferable to widening the garage as this may require a greater lot width."

GARAGE 20'X20' STORAGE & WORK ROOM

STORAGE & WORK ROOM

GARAGE 10 X20

GARDEN ROOM



Drawings courtesy Fir Door Institute

THREE suggestions for providing extra apace to help the garage fulfill its function as a utility building. In the interest of neathers. It is advisable to set up partitions or instell cubinest to close off storage areas which iroquently become cluttered

#### **Attached Garages Preferred**

Studies of home buyer reactions indicate a strong preference for the attached garage. Regarding this, the Urban Land Institute says: "In general . . . the attached type is recommended. Although construction costs may be somewhat greater, offsetting savings may be effected in shorter driveways, integral construction, and width of lot permitted by the attached garage. The attached garage with direct access to the street is preferred to one placed on the side or rear due to the great amount of paving required to maneuver a car in getting in and

AN exemple of traditional design in which the garage, though given prominence, is subordinated in its relation to the house by planting this feature at the low and of the relling terrain of building site. Splayed corners of door opening add interset

out. Garages in the rear yard detract greatly from the yard's use for garden and outdoor living."

Where the garage can be located, however, depends on a number of factors including the climate, size and topography of the lot, local codes, traffic on the street, size and style of the house to be built, parking space required for the home owner's and his guests' cars. Regardless of where it is located there are some fundamentals in planning, which, if not observed, will cause unending extra work and dissatisfaction for the home owner,

A WELL designed garage and porch that blends in character with the excellent detail of the house. Space is provided under the roof area for room or storage. Roof overhang provides shalter for door in bod weather

Easy and preferably protected access to the basement, kitchen and service portions of the house is paramount. There is such a preponderance of cash and carry shopping in modern living that the housewife as well as her husband will always appreciate a short trip with the purchases from the garage to the basement or kitchen. This is true whether the garage is attached or detached.

Since modern living calls for the use of the garage as a utility building, it is equally important that traffic between the garage and the rear yard be

A TYPICAL type of deteched qureque, adoptable in aream where a more queserous use of site frontage is available. In the case above, entremes is obtained by means of a purved forecourt. If an alley is provided at rear, entremes doors can be reversed.





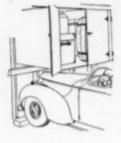
FEATURE of this house located on a slopling site is the qurage wing which devalups iste a split level arrangement with bedrooms above garage. Design solution is based on off-center and recessed position of doors. Facing of garage lacade includes brick, horisontal siding and vertical finsh boards, all painted white routed directly and simply. A large access door opening directly to the rear or at the side of the garage is usually preferred. When single garages are built wider than the ten foot minimum but narrower than a full double width, with an 8 or 9-foot door the entrance for the car should be set off center, to the side away from the access door to the yard. This puts the extra space for utility use in one spot, with the car always set close to the opposite side.

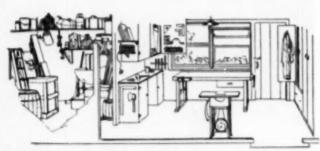
Adequate wiring and good lighting in the garage are as important as they are in the house. In addition to the lighting circuit, handy electrical outlets in several strategic wall locations are highly desirable. There should be a cold water tap as a convenience in the garage. Where space in the garage is devoted to the utility uses so necessary now, these extras add a great amount of usefulness and value to the units. Adequate window area for light as well as ventilation should be con-

sidered. During hot summer months, much of the greasy, gassy smell of an automobile can be eliminated from the garage by leaving windows open during the daytime. This is especially desirable where the garage is attached to and a definite part of the house. One of the problems with a basement garage is frequently the lack of sufficient window area for light as well as ventilation. Most housewives object violently to having the gasoline and grease odors, which are not pleasant, entering the house.

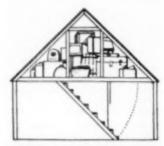


The garage door is usually the biggest single unit of movable equipment built in as part of the housing establishment. It is also one of the largest and most conspicuous features of the average home. Designers and builders who desire to please their clients, therefore, give the garage door problem much thought and consideration.





THE cabinet in the upper drawing is attached to the wall high enough to permit the heed of the car to clear under it. This is suitable for deed storage. The workroom shown is tided for the qurdence who desires a spot to keep tools, fertilizers, sprays and other freez that que with intensive qurdening. See preceding pages for floor layout



THE ATTIC of a garage of the type above can be put to good use as storage area, providing the structure is built with that in mind. Folding stairway is convenient

A large group of ingenious mussufacturers, fully recognizing the problems of garage closures, have developed a host of excellent doors to meet an infinite variety of problems and tastes. There should be no valid reason why any modern garage door should not operate as easily as the front door of the home, and look just as affractive.

There are about six major types of garage doors on the market in a wide range of prices. These can be roughly classified as the roll-up or sectional door; the swing-up or panel type; sliding door; hinged doors; accordion doors and the two-section upwardfolding door. Upward-acting doors of one type or another are far in the lead in popularity with builders and home purchasers.

Prime consideration in planning any garage for the installation of an upward-acting door is provision for head room for the type of door to be installed. There are doors available to take care of all kinds of head room situations, with a number on the market which require no head room, a maximum of two or three inches, on up the scale to others which require 15 to 16 inches. Stock sizes range from the smallest listed, which is 8 feet wide by 6 feet 6 inches high, on up to the large full double garage width of 14, 15 and 16 feet. There are sectional roll-up doors available with removable center posts. Thus two or more doors can be installed to close a large opening and if found desirable, the center posts between the doors can be raised up and taken out of the way to provide a clear opening of any width structurally sound.

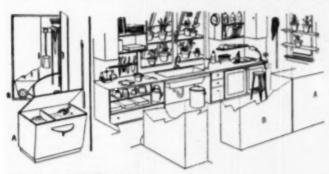
The most meticulous designing, research and manufacturing techniques on garage doors and hardware are of no avail, however, if the units are not installed on the job properly. They are all made to function smoothly with minimum effort and maintenance, but



nes part of an extended wing of house. Design of deers follo pattern of wall surface by introducing vertical bottons in same manner on wall. Project ig bay on end well faced with horizontal siding introduces an interceting contrast



ced by attached garage and extrance perch wing that extends along one entire wall. Officenter position of doors in bulanced by the open porch on appesits end. This house indicates the design potentialities contained in an attached garage it is made on integral part of the basic structure, thus reducing the over-all costs



Drawings nucriosy Fir Door Institute WITH the large number of husementless houses being erected currently, space in

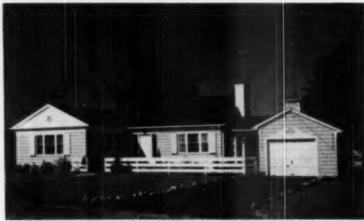
the garage structure for a workshop adda much to its all-around utility functions faulty installation in too many cases, leaves the home builder, his designer and the occupant of the house with an ever-recurring headache over the vagaries of a stubborn garage door.

The builder and his workmen should never underestimate the importance of following, rigidly, the manufacturer's directions on garage door and hardware installation particularly on all upward-acting types. This is no place to cut corners on material or time. A decision on the particular manufacturer's door to be installed should be made before the rough opening is framed so that the opening can be made to exact dimensions required for the finished job, and also, so the recommended headers and jamb fram-



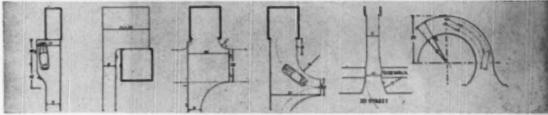
MODERN application of the quauge to a two-story wine, The horizontal divisions in the door are in keeping with the horizontal siding on wall above. Canopy over door provides projection from weather

THE DETACHED garage of this one-story ranch type house, designed in the traditional manner, is made a part of the over-all arrangement by a connecting breasury. The garage doors are placed off-center of front wall to provide low work beach on side wall. Bool ridge is contered on door, thus extending the rool line on one-side and purposely establishing a lower cave line



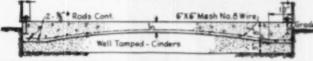


THI: position of the eave line in the design of the quarage in fiexible, as indicated in the house shown at left. It gives an informal appearance to this part of the house. Windows are offectively pieced in the street wall of garage, with fieldstone and steined shir gless used for the exterior



Drawings courtesy Fir Door Institute

THE first four designs above suggest varieus types of parking areas and suraarounds that can be incorporated as part of the qurage driveway where they are necessary or destrable. Where these large arons are concrete they are also ideal for children's play or game courts. Dimensions shown are minimum. Where the driveway crosses the street curb. It must be forced at a three to five-foot radius. The modifiest outside radius to a circular turn-around or curved driveway in 28 feet and the smallest inside radius to 18 feet



CROSS-SECTION of a thick-edge slab, relatoreed to form foundation and floor of garage

ing members can be incorporated as a definite part of the garage structure to assure that it will be permanently rigid and plumb. The garage floor should always be level with the width of the door and the opening must be aquare, adequate space must be allowed on each side of the jamb interior for installation of the hardware, usually three to four inches.

Hardware for garage doors of many types is available to builders who wish to fabricate their doors adjacent to the site of construction. Here, again, it is paramount that manufacturers' directions be followed so that the hardware will not be overloaded or put to some use for which it was not designed.

The remodeling and renovation of old garages with the installation of new doors of the upward-acting type as well as replacement of other types with new doors and hardware offer a tremendous potential market for labor and materials. A number of manufacturers offer hardware which can be used to convert swinging or accordion-type garage doors to the upward-acting type. Whether the old doors are converted or a new upward-acting type of door installed, it is essential that the old garage structure be properly leveled, plumbed and reinforced, especially around the large door opening, so that the new door will work satisfactorily. Good builders and dealers will find no short cuts here if they are to maintain a satisfied clientele.

Following in the steps of the increasing popularity of upward-acting garage doors is the development of automatic garage door operators. Progressive manufacturers are bringing the fascinating magic of remote electrical control and sound vibration activation to the level of use by the home owner at prices that are making it



AUTOMOBILE hompors and tail pipes acrups the driveway unless cureful railrulation is mode on grade variations. A champe of not more than one linch per foot within any 10 feet of distance will usually allow adequate clearance



Photo courtesy Urban Land Institute

IF THERE is a retaining wall parellel with the drivoway. It is desirable to install a low curb at the base to guide automobile wheels so feeders will not scrupe the wall

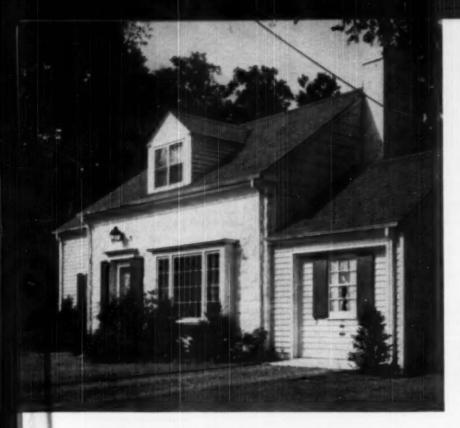
more and more practical to install these units. Their desirability and convenience to the home owner stem from the fact that the garage door can be opened or closed by merely pushing a button on the instrument panel or floor of the car. With garages fronting on



WHIRE building codes permit garages are effective when allowed to project beyond the frest wall of house. House and garage are of concrete block with fint deck over garage



Drawings country Southern Fine Association. A POSTWAR model outomobile's humper and toil pipe acropse povement entering private driveway in a 15-year-old subdivision. This can be avoided by following recommendations on grade variation included on these pages:



TO HAVE the garage wing conform in outward appearance to the hedroom wing on opposite side of main facade, the surface of the garage deer is designed to hormonize by applying horizontal siding to the surface and cutting a window into the door to recombin a wall. Use in mode of the same materials for facing the opposite and of front wall.

the streets and being used more extensively as utility and storage structures, the need for keeping the door closed at all times is obvious. It not only obviates the danger of theft but also closes off from public view whatever weaknesses the honse owner may have as a neat housekeeper where the garage is concerned. Because houses are designed to look their best with the garage doors closed, it is desirable that, they be closed most of the time, whether the garage is attached or detached. These operators also switch

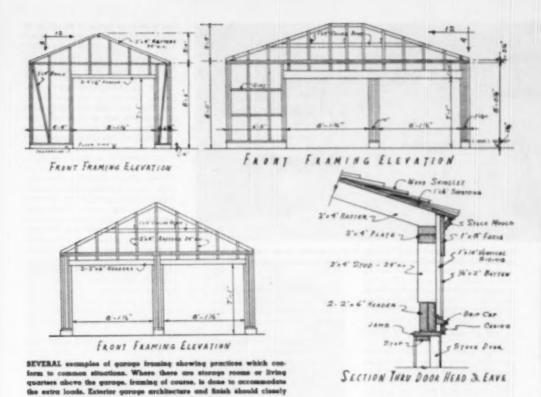
lights on and off in the garage or outside and at other points in the house when desired.

Industry surveys indicate that less than one per cent of the existing garages have automatic door operators. There are several different models, but basically they consist of a simple sending unit mounted in the owner's car with an individual wave length set to activate the door operator mounted in his garage. His car unit will not open any other doors and no other owner of an automatic set of his type can open his door. These units make contact with a coil imbedded in the driveway or directly with the operating mechanism. There are units that activate the door operators with inaudible sound vibrations and function in the standard manner. Electrical switches inside the garage can be used to open or close the door and, should electric power fail, the door can be opened manually.

Automatic door operators are no longer experimental gadgets. Some manufacturers have been in the busi-

AN EXAMPLE of garage and breeze-way extended mole body of house architectural lines of the ruse and garage are simple and effective. Good use is mode of color contrasts on the wall and trim of both units without either one appearing quetak. The extended type of qurage on shown at right. must be confined to a one car unit to prevent garage from becoming accessively domi-





neas, doing research and producing units for more than 40 years. True, the mechanism is complicated and their manufacture requires highly skilled techniques but when the proper unit is selected for the job it is to do, and installation is strictly according to the manufacturer's specifications, these additions to the plus conveniences of home ownership can be pleasurable and immeasurably valuable time-saving devices.

match the house even though the garage is detached

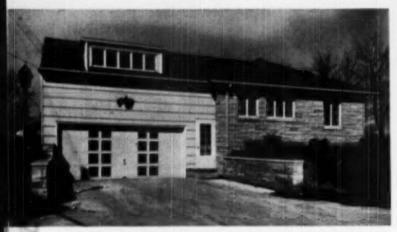
The pleasure and satisfaction of designing and erecting a modern garage with all the conveniences can be marred soon, however, if it is not set on a good foundation and is not easily accessible with the automobile. Footings and foundations should always he put down according to local code requirements and climatic needs. Recommended floor for the modern garage is concrete, with the slab at least four inches in thickness and equipped with a drain if at all possible. If the slab is not reinforced the bed under the slab should be gravel, cinders or crushed rock to a minimum thickness of four inches. Earth under the slab should of course be leveled and tamped. The slab should extend at least two feet in front of the garage door opening to form an apron, sloped to the driveway. An expansion joint should be provided at the garage apron between it and the driveway.

There are variations in the design and methods of laying garage floor slabs, depending on the locality and climate. A popular and satisfactory floor, incorporating foundation and slab in one unit, is the thick-edge reinforced slab. These are 18 to 24 inches thick at the outside edges with the underside arched to a minimum thickness of four inches at the center.

The driveway should always be planned at the same time the garage is planned. Tricky turns, bad grades and obstructed views of danger spota are some of the results of poor driveway planning. A one-car driveway should be at least eight feet wide on straight stretches and at least 11 feet



A TYPE of garage design that is often used on the less expensive houses. The short pitch of the roof at front wall conforms to house roof. The balance of garage roof is left flat



The two-car "OVERHEAD DOOR" of flush wood construction, gives a wide, unobstructed opening. The door is equipped with the model "H" electric operator with radio type control

wide on curves. If it is a two-car driveway, minimum width is 15 feet and 16 to 17 feet is preferable. If the driveway is sloped there should be a level area at least 15 feet long in front of the garage to facilitate stopping the car and to minimize the possibility of the car rolling with poorly set brakes or because the brakes are not set. Where there are curves in the driveway it is well to remember that with modern model automobiles, the smallest outside radius for a curve is 29 feet and the smallest inside radius 18 feet. If there is room to do it, it is always well to increase both radii, at the same time keeping the driveway at a minimum width of 11 feet on the curves.

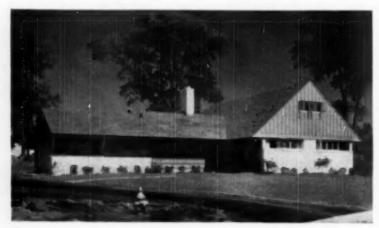
Whether the new rolled curbs or the conventional straight curbs are used, it is recommended that curb returns at the roadway be three to five feet in radius. With a 26-foot street, this will permit a car to enter or leave the driveway without being obstructed by another car parked at the opposite curb.

Sharp dips or sudden changes in grade on driveways are common faults to be particularly avoided because of the long overhangs and low ground clearances on most new model passenger cars. Entrances to driveways and the driveways themselves should be designed to accommodate all common makes of cars with long rear overhang and low bumper or tailpipe clearance. Rear, overhangs run as high as 41/2 to 5 feet and about six inches clearance for the tail pipe is usually accurate. Considering these factors along with possibilities of overloading and spring action, a change of driveway grade not more than one inch per

foot within any 10 feet of distance will allow adequate clearance for practically all American-made automobiles. No driveway should be absolutely flat but should slope slightly from the center toward each side, or from both sides to the center, depending on conditions. This is to permit good drainage. The usual slope for this purpose is one-fourth inch to each foot from the high point to the low point. Obviously no garage should be set on grade to that water drains toward it and remains around it to form miniature lakes or ice ponds.

In areas where there is a great deal of ice and snow during winter months, engineers and manufacturers have developed heating systems which keep concrete driveways warm enough to eliminate ice and snow as it develops. This type of convenience is especially important and serviceable where driveways have steep grades and complicated turns. For all home owners in cold climates, however, a heated driveway can assure easy access or exit to or from the garage in all weather, without the customary laborious snow shoveling or expense of having it removed.

Only a few years ago considering the garage as part of the house would have been thought as ridiculous as placing the old-time stable in the same location. Now that it has become so definite a part of modern living its design and construction merit the same attention as the house. Where the garage is attached to and a part of the house, obviously its design, construction and finish treatment must blend with and match that of the house. This also holds true when the garage is detached, with the exception of framing and foundation. Some builders and home owners cut corners on garage erection costs by using ex-



CONTEMPORARY design is given full play by the designer in house and garage shown at left. Large forward aloping window at front of side wall of garage together with brick flower box, serves as an architectural feature to highlight this end of house

IN AREAS where soning lows parmit, a great convenience may be established for tasents by excelling apartments over ground floor garages as indicated at right. These doors were built on the job and equipped with factory-made hardware

Photo cutrieny Frantz Mig. Co.

terior finishes which are different from those on the house. Such a move should always be made reluctantly. The esthetic as well as the monetary value of property is enhanced when the garage matches and blends with the home.

All garages which are attached to or part of a house should be separated from the house with a firewall and fire-resistant access doors which conform to local codes and insurance underwriter specifications. If the house heating unit is installed in the garage, it should always be set apart with a appearance, blending with the home, its landscaping and architecture. Visitors and guests commonly park their cars in the home owner's driveway, so the garage is one of the first closeup views such persons get of their limit's residence. This makes it essential that the driveway be in good order and that the garage present a pleasing appearance, whether it be attached or detached. This makes the garage door one of the most conspicuous parts of the home frontage. Thanks to the ingenuity and good designing techniques of manufacturers, the builder and home owner can obtain garage doors and garage entrance treatment which bespeak good living and "welcome" as much as the house front entrances have for generations. This plus judicious use of shrubbery, and trellises make the garage part of the home today.



LESS than one per cent of the existing pureages have automatic deer operators. Medeen techniques in design and monatorium make them efficient and trouble-free when properly installed according to monatorium a specifications. A push button installed somewhere on the instrument punel of the car or on the floor is used to activate the mechanism from the our

DIAGRAM showing one type of outsmotic quroup door operator installation. This particular unit utilizes a receiving call imbedded in the driveway. There are others which make direct remote control content with the operator. All units are on individual wave langths so that the sending unit in a car will open only the door to which it is synchronized. Wall switches can be used to open the door raise and should electric power built the door can always be opened monitorily

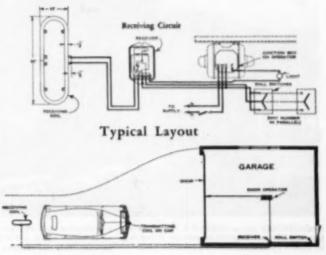
Photo and drawing courtery Barber Colman Co.

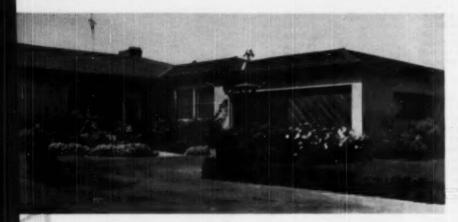


partition. When a door opening occurs between the garage and the dwelling in attached garages, the garage floor should be lower than the adjoining floor or the door saddle should be raised a few inches.

The one-story detached garage may be framed with 2x4's 24 inches on center. Studs do not have to be doubled around openings less than about 3 to 31/2 feet in width. Corner posts can be 2x4's or 4x4's and single top plates can be used but plates should be lapped or tied at the corners. The rafter ties can be 2x4's but should be spaced no farther than 6 feet on center, Corners should be braced and these pieces can be fastened on the inside surface of the studs. Sheathing and building paper can be omitted, although it can help the home owner to avoid much hard car starting in extremely cold weather if it is used. In extremely cold climates insulation is desirable.

With the trend preponderantly toward street entrance garages, it is essential that the driveway, as well as the garage itself present an attractive



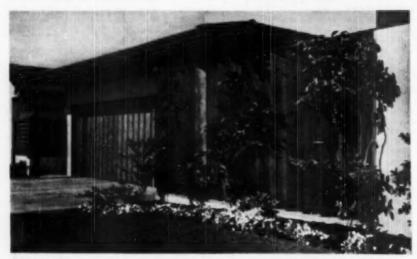


BECAUSE of the prominent position of the qurage in relection to the house, the forecourt officers to the drive is thickly landscaped. Wall, flower hax and lamp standard which form a separation, introduces a color nate both in the character of box and its contents

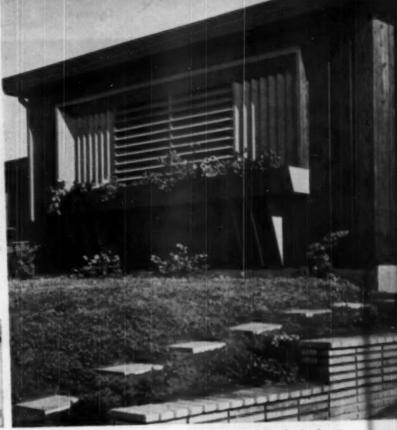
# Architectural Details that Add Interest

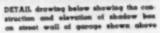
ABCHITECTURAL accessories such as the 2xttach square pattern leithe frame extending out from wall of garage, do much to break the sewerity of plads wall surfaces. The lattice frame is placed on a knee high stone wall that serves as a planting base. The horizontal facing of door and frame is painted white in contrast to the vertical redwood and hotten siding. Garage forms a part of the entrance forecourt

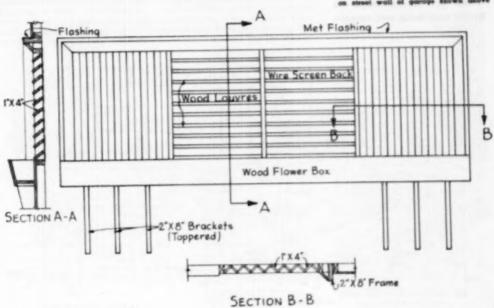




SEMI-DETACHED garage connected to house with a high bourd lonce. All bourds in fonce are placed in an angular pattern, thus providing privacy but allowing passage of air through lence. Garage door is built up of vertical boards and buttens. Material used is redwood. Wide roof overhang protects garage doors THE FEATURE at end wail al qurays wing, referred to as a shadow hor, while primarily consumental and used for the purpose of dressing up the street wall, also has a practical value in that herimontal louvres are used for vestilating the qurays. Shadow box is constructed of a 2x10 inch frame with a splayed surface on inside face. Vertical louvres are closed an inside face with provisions at all fer drainage. Flower hox is supported on simple V type wood heackets. All material is of redwood. View below shows the relation of the quraye to heuse and street







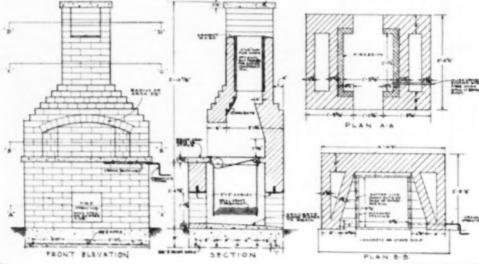


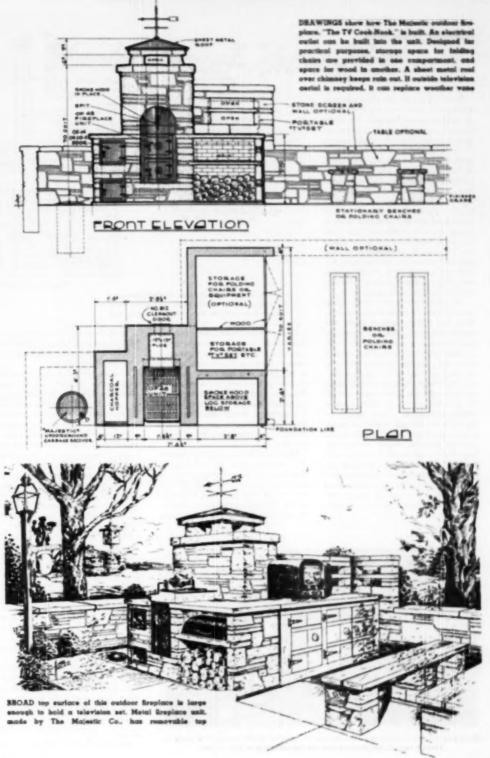
BARBECUE unit in this Grillcruft outdoor fireplace can be removed and used indoors. How unit is installed shown below

# How to Build Outdoor Fireplaces

Prized possessions to most home owners, today these units are inexpensive to build and help sell homes TO BACKYARD-CONSCIOUS home owners who like sunshine and fresh-air entertaining, outdoor fireplaces are prized possessions. Today, a builder can offer these units, at little extra expense, as valuable selling features for any home.

Like an indoor fireplace, certain basic principles of design and construction must be followed in building an outdoor unit. These concern parts of the fireplace that control draft, fire, and cooking effectiveness, however, and need not interfere with the





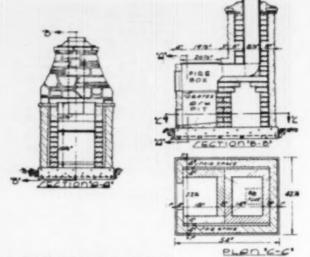
#### Outdoor Fireplaces

builder's own good imagination in creating exterior designs to his liking. Here are some of the basic princi-

plex:

First, a good fireplace has a strong, solid foundation. Concrete or masonry is recommended, though in warm climates, tamped earth, cinders or gravel are sufficient. In cold climates, the unit should be built on either a floating slab of reinforced concrete, or brick or stones set in mortar at least four or five inches below frost line. A floating slab should be six to eight inches thick, with two-thirds of it below grade, the remainder above. If the foundation is stone set in mortar, be sure all joints are filled with mortar to prevent water from entering. The foundation should be at least one inch wider on each side of the fireplace and one inch longer at each end. A paved apron in front is desirable, to form a work area.

To avoid the necessity of worrying about proper dimensions of fireboxes, flues, and other working parts, the easiest and usually the least expensive procedure is to purchase a ready-built, all metal fireplace unit. They form a framework for the masonry and keep all inner working parts in proper proportion. Outer walls may be of brick or stone, or both. Inner walls should be firebrick placed on edge to save bricks and space. These should be lightly buttered with 1/16-inch joints of fire clay mortar, as should the space between firebrick and exterior chimney. Mortar made of fire-clay, with about 20 to 25 per cent portland cement is recommended. Common brick should be thoroughly dampened before laying up, and joints should be not more than one-half to three-fourths of an inch.



THESE typical detail sections filustrate basic relationship between dimensions of fireplace parts required to achieve an efficient operating unit

Before exterior mortar joints set they should be raked deeply with stiff wire loop, if rustic stone work is used, or flush for face brick. To make a neat finish for the top of the fireplace walls surrounding the metal unit, flat stone or tile may be used. Or any other material may be used, as long as it is fireproof, keeps water from getting down between the walls, and offers a convenient counter or working area.

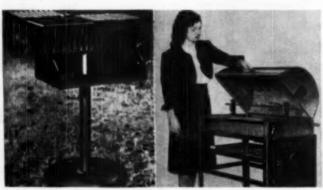
Metal used in the fireplaces expands and contracts with the temperature. Provisions to allow for this are mandatory, to prevent ruining the fireplace walls. One good idea is to place sheets of corrugated paper against the fireplace unit before surrounding it with firebrick. When the first fire is built in the unit, this will burn away and leave the proper space for expansion and contraction.

If wood or coal are to be used in the fireplace, a chimney is preferred. It should be high enough to create a good draft and to carry away the smoke. There should be no square corners on the inside of the chimney passage. This interferes with the draft. It should have a flue liner of fire brick, a cap to keep water out, and a screen to prevent flying sparks.

Design possibilities for outdoor fireplaces are almost limitiess, if the above basic principles are followed in setting up the ready-built working unit. Most attractive units suit the surroundings and available space where they are built. Low, rambling designs are ideal for open spaces; high chimneys go well where the yard is surrounded by trees. Any fireplace should face the direction of prevailing winds.

Materials selected for the exterior of the fireplace should be chosen to harmonize with structural materials used in the home or other nearby buildings. If field stones are used they should be the least porous type possible, to prevent cracking from moisture freezing and thawing.

It is advisable to waterproof the entire exterior of the completed outdoor fireplace, sealing all porous portions. This protects the materials, accents, and helps retain colors of the masonry used.



GRATE on outdoor cooking unit, left, returns on stand for draft control. It is made by Bennett-Iroland, Inc. Majestic unit has top accessory to hold in heat

Duta courtesy of The Majestic Company

# Uncle Doesn't Know Best

By R. E. Saborson

THE MAILMAN just arrived. It is mid-afternoon . . . a hot day. His load was extra heavy and he was not in a pleasant mood. Several of his customers were complaining, as usual, because it no longer is possible for him to make his deliveries in the foremoon. They liked it best when he used to come early in the morning. Now his arrival is late in the day . . . and uncertain. They don't like it. Neither itoes the mailman.

Seems as how it was all brought about because the Post Office Department has been "forced" to curtail its services, owing to the short-sighted-

T'S BEEN

DELAYED

neas of a group of niggardly politicians on Capitul Hill who insisted that certain long-needed economies might be in order. The Hoover report had revealed shocking wastes and exorbitant duplications sufficient to arouse the ire of the over-burdened tax payers—eye-witness daily to the extravagances. Consequently it only seemed reasonable that either the excessive coats or the incompetent officials should be eliminated. What could be more logical!

The department's reply was a kick in the pants for every Post Office user in the United States. With bureaucratic noses tilted high in the air and with public-be-damned hauteur written all over their grim countenances, irate Post Office officials issued instructions that apparently were intended to teach all economy-minded citizens not to meddle with or worry about the inefficiencies of the gargantuan monopoly that once had the respect of the public it is supposed to serve.

This kick-em-in-the-slats reaction on the part of Government officials is more or less typical of what happens when dear hearts and gentle people have the tenerity to suggest the inexcusable inefficiencies and needless extravagancies be done away with or at least reduced substantially.

By this time every citizen of the so-called "land of the free and the home of the brave" knows that the Post Office Department is in an unholy mess. Mail trucks of ancient vintage careen menacingly down crowded streets. Delays in deliveries have become the rule rather than the exception. Scheduled pick-ups are postponed and even overlooked. mailman that used to ring twice is now ashamed to ring at all when he puts in his belated appearance as he attempts to carry the day's grist in a single load instead of two as was formerly the case.

No other Governmental activity is as familiar to the American people as the Post Office... no other bureaucratic operation comes more intimately to the public's attention. Here the man of the street has a first-hand opportunity to appreciate why costs pile up needlessly whenever Government recitage is involved.

There is much food for reflective thought in the fact that the United States Post Office has long been a dyed-in-the-wool monopoly. No one else has even had a chance to deliver the mail. No one has ever questioned the authority of the vast organization or dared to do anything that would improve its progress. The department has been supreme from the very beginning and even protected by a psychological asra that insulated it from criticism.

Yet despite these unusual advantages that are never enjoyed by private companies that can only grow big by virtue of the quality of the services rendered (and therefore "victious" according to current bureaucratic philosophy), the Post Office steadily has grown bigger and has gone from bad to worse until finally it has all but broken down.

American citizens who are looking toward Washington with more and more concern over the manner in which their hard earned tax enonies are being spent, have a perfect right to wonder whether a Government that cannot deliver and collect the mail efficiently is able to take over the exceedingly complicated job of providing housing, as is the constant ambi
(Continued on page 128)

ANCIENT MAIL TRUCKS

DYED - IN - THE - WOOL

MONOPOLY

AUGUST, 1950

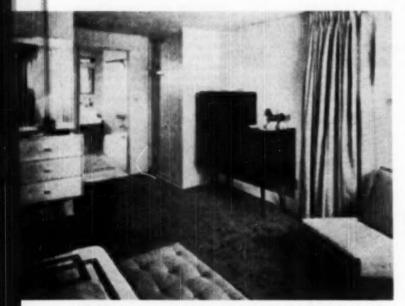
OVERLOADED

MAIL CARRIER



#### **Panelized Home for Select Projects**

This is the new Sun Ranch Home-supplied to eastern builder-developers in modular panels from prefabricating plant



SLIDING doors separate due-both seen in background of bedroom into two compartments, each with water closest and larvatory. All clothes closets are factory-interiored

EXHIBITION models of the new Cy Williams three-bedroom, duo-bath Sun Ranch Home were opened in April for public inspection in two Long Island locations. Although 40 per cent factory-fabricated by Cy Williams Fabricators, Inc., Huntington Station, New York, it is constructed and assembled with conventional building methods.

Last year the expansion model Sun Ranch Home, which is an improved version of the conventional five-room story-and-half home, won national acclaim (see American Builder, August, 1949, page 80). The new model of 1220 square feet of living space has been developed to meet the requirements of the \$15.000 market; the 1949 home was in the \$10,000 price class.

#### Approved by Institute

The 1950 Sun Ranch Home is the first of its type to be approved by the Revere Quality House Division of the Southwest Research Institute. On Long Island the home is priced at \$14,990, complete with garage and fully landscaped plot.

The basic floor plan of this house designed by James Scovil includes a large living room with wood-burning fireplace, three bedrooms, duo-bath, fully equipped kitchen and a dining area.

Monolithic concrete foundations of the house extend below the frost line, and the structural floor (four inches



AT LIFT, completed Sun Banch Home loss design integrity of modest and functional lines that arrest attention with dynamic proportions of large window area, vartical paneling and incade of common brick are used, also, in fireplace that is major lesell point in living room shown at right. Wallboard and caphalt tile were used for wall and floor tinishes

of concrete over a six-inch gravel fill) has half-inch copper coils imbedded in it for the radiant heating system. Three-fourths-inch insulation boards used as a barrier at the floor slab periphery also extend four inches below the slab to the footing abutment at the grade line.

#### **Panelized Framing**

Framing consists of panelized sections of 2x4-inch studs, 2x6 joists, 2x6 roof trusses and 34-inch plyscord sheathing. A 2x4-inch continuous top plate installed on the job helps to bind the sections. Attached to the foundation with 3½ by 8-inch anchor bolts is a 2x4-inch creosoted sill.

Interior walls are finished with ¼inch wallhoard carefully taped, with
1½-inch baseboard at the floor and
quarter-round at the ceiling intersection. Windows and doors have twoinch beveled wood trim. Interior floors
are finished with asphalt tile except in
the bathroom which has a white ceramic tile floor and wainscoting.

All the factory-made closets in this model home have sliding doors. Youngstown kitchen cabinets are generally used. Top hung casement windows and flush doors complete the interior trim motif.

#### Roof and Walls Insulated

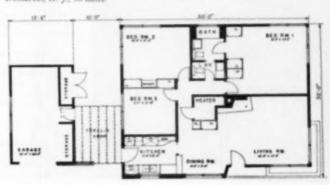
While type "B" Reynolds Metallation is used to insulate exterior sidewalls, two inches of Cellulite are used in all ceilings. Zinc interlocking type weatherstripping on all exterior openings provides further weather protection. Covering the roof are 210-pound asphalt shingles over a felt undercoursing. Beveled siding, cedar shingles or asbestos shingles and brick or stone form the exterior finish.

The Cy Williams company has organized a Home Development plan which incorporates a complete building program to aid the qualified local builder in the construction and promotion of Sun Ranch Home projects and offers these aids: job organization, advertising, land planning, engineering, financial guidance, and architectural help.

Builders erecting and selling Sun Ranch Homes this year in the New York area are: Eugene Miltonberger, Redbank, N. J., 15 units; Colby & Sons, Inc., Glen Cove, L. I., 103 units; Wm. Colby Corp., Flower Hill, L. I., 43 units; Sammis & Mead, Greenwich, Conn., 30 units; Mead Co., Stratford, Conn., 70 units; Stephen Mapes Ruden, Inc., Chappaqua, N. Y., 30 units; Roy Julie, White Plains, N. Y., 75 units; and Ansell Ranch Homes, Inc., Demarest, N. J., 98 units.

Formerly the Sun Ranch Homes were available through local builderdealers on individual home-owner sites. Today, however, they can only be obtained in one of these carefully chosen community locations.

These are the products used in the house or included in the purchase price: Wallboard, United States Gypsum Co.; kitchen cabinets, Mullins Mfg. Co.; insulation, Reynolds Metals Co. and Gilman Brothers Co.; hardware-door, Schlage Lock Co.; window, Vincent Whitney Co.; medicine cabinet, G. M. Ketcham Mfg. Corp.; Heater, Auto-Heat Corp.; hot water heater, Bryant Heater Div., Affiliated Gas Equipment, Inc.; lighting fixtures, Lightolier Co.; asbestos shingles, Johns-Manville; range and refrigerator, Nash-Kelvingtor Corp.; washing machine, Bendix Corp.; ventilating fan, Fasco Industries, Inc.; plumbing fixtures, American Radiator and Standard Sanitary Corp.





PRITE-winning Colonial Terrore apartments designed by Solheim



"FLYING architect," Salmer A. Solheim, has designed apartments for four different states

# Rental Units for the Small Builder

Apartments designed by "the flying architect" are built in Nobruskn for as low as \$7,000 per unit

RENTAL units designed by a Lincoln, Nebraska architect are finding wide acceptance in a four-state area for two practical reasons: (1) they are small enough to be comparatively inexpensive to build, and (2) large enough to bring sufficient rental income for the owners. The architect is Selmer A. Solheim.

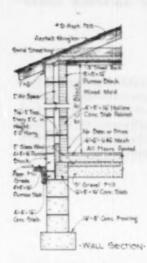
One recently completed project of four-family units in Lincoln was built at a cost of \$7,000 per family unit, including land. Built by the Hueske Building Company, they are conventionally framed, individually heated, and equipped with separate hot water heaters, ranges, refrigerators, garbage disposers, and kitchen ventilating fans. With one and two bedrooms, they rent for \$69.54, \$82.50 and \$85.

Reinforced concrete slab floors over concrete foundation walls and footings are used in some of these frame apartments, while others have full basements. Where slab floors are used, first floor covering is asphalt tile. Two-by-four plates are bolted around the outside perimeter of the foundation wall or slab, and 2x4 studs 16 inches O.C. are erected. Floor joists are 2x8's, 16 inches O.C. Oak flooring is placed over diagonal subflooring. Slab floors are insulated with 2 inches of Fiberglas, while insulating sheathing is used on outside walls and three inches of mineral wool is placed between ceiling joists. Roof covering is 210-pound asphalt shingles.

Where there are basements in the new frame buildings, each four apartment unit has two bedrooms. Where a slab floor is used, there are two one-bedroom and two twobedroom units.

One four-unit apartment project in Lincoln designed by Solheim was built at \$6,500 per unit, and rents range from \$55 to \$71.50 for one-bedroom units to \$65 and \$88.50 for two-bedroom units. These four-unit biuldings are 28 x 55 feet.

Recently the Lincoln Real Estate Association, a private interprise group promoting construction of low rental housing, selected Solheim to draw up plans for four, two, and single-family units for low rental. Solheim's contribu-





. FRONT ELEVATION .

REW duples operanent can be built in Lincoln for about \$9,000, according to Solhaim



DETAIL drawing, left above, is Sciliaim's recommended side wall, to underton and tooting construction for duplex apartment he has designed for Lincoln low-cost reutals. Floor pian of duples, above right, shows officient room arrangement of unit

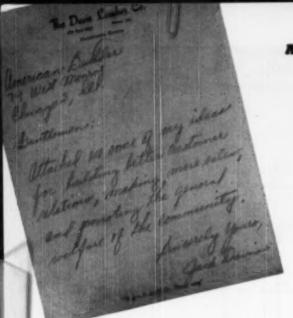


LATEST four-unit opertments designed by Solheim, as Soor plans indicate, are compact in arrangement yet offer liberal room sizes. Each living room has a large picture window

RENTS of these frome opertments very from \$89.50 to \$85, and cost of construction was about \$7,000 per unit. Conventional framing is used throughout, with 2x4 stude and 2x8 floor joiets 16 inches O.C. Some are built on slob floors; others have full basements tion so far has been a duplex which he says can be built in Lincoln for as low as \$9,000, to rent for about \$39.50 to \$49.50. The cost to build elsewhere would vary about 20 to 30 per cent, he says. It will fit on a 50-foot corner lot (see construction details).

The Colonial Terrace apartment project built in Lincoln in 1948, now owned by Solheim, is typical of other Solheimdesigned apartments. It won an Honorable Mention award (Continued on page 205)





#### A Kansas lumber dealer says

## "Sell from the

Sales ideas that count for this firm include a personalized portfolio, picture post cards and slogans. Equally important to the company's success is a new method of buying control . . .

A PERSONAL touch to selling has steadily built up a long list of satisfied customers for the Davis Lumber Co., Hutchinson, Kansas. The sales methods, promoted by Jack C. Davis, managing partner, offer new ideas of selling from the customer's viewpoint.

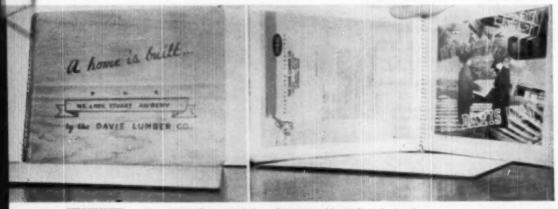
Aim of the firm's sales approach is to make as many people as possible feel they actually "know" the company, and feel that it is intimately concerned with their home building or maintenance problems. Newspaper and radio advertising are more personalized than usual, and this, together with a unique type of advertising with

portfolios, post cards, and slogans backed up by services that fulfill the complete demands of the consumer keeps this company in stride with a progressive community.

Newspaper and radio advertising are effective for two reasons: (1) they are easy to read or follow, and (2) they leave the impression that Davis Lumber company can take care of the home building or repairing problem, no matter how large, with minimum effort to the customer. A few, simple words are used. The word "you" is stressed.

Classified advertising, says Jack Davis, is just as important as one and two column newspaper advertising—if it is properly worded. Stimulate the reader to immediate action, is the advice Davis gives. He uses such words as "Build Now...labor and materials are not going to be any lower from what we hear..." Or, "Call the Davis Lumber Company now."

Selling from the customer's viewpoint means being able to know his wants and finding out how to satisfy them, says Davis. Most families, for instance, are proud of their new home, and want to show it off. More practically, every family likes to feel it has made a good bargain; that re-



PERSONALIZED porticito, entitled "A home is built . . ." is presented by the Davis Lumber Company to each new home owner. On lastide front cover, right, a letter quaranteeing the home for one year is included. Progress photographs of the home, a list of materials used, and a cost breakdown of materials and labor are incorporated in attractive book

# **Customer's Viewpoint"**



THREE typical homes built by the Duvis Lumber Co. Firm overages completing about 12 a year

sale value is good, and will be for a long time. Davis has devised a personalized portfolio designed to point up the value of the home.

The portfolio is regarded by Davis as an important sales tool. Given to each new home owner, it contains illustrations showing construction procedures of the home, including a large black and white photo of the completed home; a guarantee from the Davis company; description of materials used, and manufacturers' guarantees of materials used if they are supplied. Spiral-bound, the portfolios are made up with handsome covers simulating wood grain, and

are usually kept in a handy place in the living room by home owners.

The guarantee from the Davis company, on the inside front cover, is in the form of a personal letter from Jack Davis. The letter explains that the new home, like a new automobile, may sometimes require minor adjustments. These adjustments are made free for a period of one year, the letter states. Complete as it is, the book provides a valuable sales tool for the home owner, who may show prospective buyers complete details of his home. Important to Davis is that maintenance jobs on the homes will be required long after the one-year

guarantee has expired, and long before the portfolio is taken out of use and display by the home owners.

Fifty past cards with a picture of the new home, in addition to the portfolio, are given to each new home owner. The slogan, "It's Fun to Build the Davis Way" is printed along one border of the picture side of the card.

"It's Easier to Build than You Think" is another slegan used by the company. A slegan emphasizing the reputation the company is striving to maintain is "Davis Built Means Well Built."

Backing up all advertising and promotion claims by the Davis company



RATIONALLY advertised products—ones that are likely to be most in demand by both builders and consumers—are kept in the well-stocked Davis Lumber Company store, and are ordered according to a unique Unit Buying Control system devised by Jock Davis



#### When The "Ballding Bog" Bites You HERE'S WHAT TO DO:

- I. Sho,'t be alarmed . . . It's not finial. It's has to hold the Sects Ward
- 5. Walk ... don't run, in the sourcet triopings
- S. Phone 316 ..., the Lumber Number,
- 6. Then color . . , we take it from there.

For Skirken pears people who have being billing by the "Sulfding Sing" have seens to at for prumpt remotion and have revealed as goldeled costomers.

> HERE'S WHAT WE DO:



- 1. Mile you select the building also
- Pirminh you with plane and specifications designed to selve your individual building problems.
- E Becommend reliable contractors take will do your tedding and generates the assertation,
- 4. Etcs you up to the retrest Standing Information
- Provide you with accurate relination on what it will cost to start living in your one boson.



HURRY, CALL THE LUMBER NUMBER 334.

or come in boday, if you're thinking of

Beamfelier

Be realing

in realing

Be described

Building & garage

Our complete ONE-STOP BUILDING SERVICE will save yed time and meney!

Ask About the

#### SWEAT EQUITY PLAN

here your later providing all or part of the deem payment on your new beams.

Davis Lumber

Homomore News tieraid ad by W. J. Wakefield ADS for Duvis Co. are personalized

are well-trained employees, carefully selected, who are housed in homes they bought with no money down from the Davis company; who receive paid vacations, and work on a bonus plan. They feel they are an active, important part of the organization. Once a week they, with the company management, get together at night to discuss company problems and offer solutions to them. In return for good working conditions and salaries, Davis expects—and gets—first-rate salesmen who carry out his sales policies.

**Unit Buying Control** 

As a basis for forecasting demand and for keeping inventories balanced in relation to sales. Davis has devised and uses a unit buying control method. It provides a convenient and systematic method of counting stock and ordering items. When properly kept, says Davis, it shows—(1) What sold well last year; (2) what did not sell well last year; (3) what is selling well this year, and (4) what is not selling well this year. It thereby helps determine what to order, when to order,



SALES personnel are well-trained in the Davis sales methods



VARIED designs and materials are features in Davis-built homes

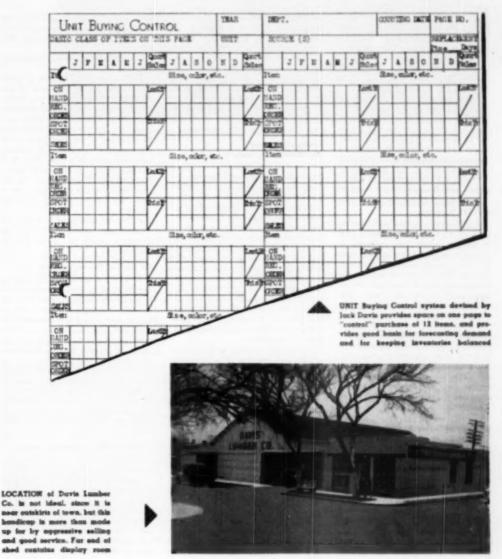
how much to order, when to take markdowns, and what to discontinue.

"However," Davis cautions members of his firm, "no matter how valuable you find the Unit Buying Control, it must never be considered as a complete substitute for your own good judgment. What you must do at all times is use the figures on the Unit Buying Control and see through them to the customers."

Buying control pages (see illustration) are set up each year for items to be controlled. Spaces to be filled in at the top are the year, department, counting date (date each month on which items on the page are to be counted), page number, basic class of items on the page, unit (gallons, pounds, dozens), source or supplier, replacement time or days which will usually elapse from time of order until item in received, and item. There is space on each page for controlling twelve items. Name of each item is entered in these spaces, with size, color, unit, stock number, or other necessary identification.

Spaces for each item are filled in each month. The letters "J, F, M. A. M. J, J, A. S, O, N, D" at the top of vertical columns stand for the months of the year, beginning with January. Each item on the page is counted once each month, a date of counting each month, and the top of the page, and the quantity of the item on hand at the counting date is listed in the column marked "On Hand."

After an item is counted, a study is made of sales of this item during the (Continued on page 132)



### How to Use Section 213

## **COOPERATIVE HOUSING**

By Martin C. Huggett

**Executive Vice President** 

Chicago Metropolitun Home Builders Association

DIRECTORS of the State and District offices of the Federal Housing Administration, prompted by Commissioner Richards, are recommending to home builders that they sound the possibilities involved in Title 11, Section 213, Cooperative Housing, a new, and yet, untried program.

The section was written and enacted as a private enterprise substitute for the bill providing direct government loans for cooperative housing which was so ardently fought and finally defeated by our industry. Its substitute accordingly provides a challenge to private builders to take it, utilize it or suffer the consequences of ignoring its provisions.

#### A Profit Incentive

A preliminary review of the provisions of the law might possibly lead to the belief that little incentive in offered to engage in the organization and construction of programs under this law. That is not true because the fee construction contract provides as nuch profit as builders usually seek and renders a compensation for the extra work involved.

It is certainly true that groups of cooperators desiring homes under the provisions of the law, when unskilled in construction operations, will run into the same and possibly more serious difficulties than those who have previously tried to organize cooperatives and failed miserably and often scandalously.

#### **Builders The Logical Promotors**

It follows that, if the law is to become operative to a successful degree, it is best that the transactions should be handled by those skilled in the wholesale production of housing. The project builder therefore becomes the only logical person to carry through the promotion from beginning to end.

The law offers extremely favorable terms—mortgages for \$8100 per dwelling unit or \$1800 per room, whichever is best, but aggregating not more than 90 per cent of replacement cost. When 65 per cent of the stockholders are veterans of World War II these figures are advanced to \$8550 per unit or \$1900 per room with a 95 per cent mortgage limit. Savings are also achieved due to freedom from franchise and income taxes. In addition the limit of amortization is placed at 40 years and the rate of interest at 4 per cent, rendering monthly payments very reasonable.

#### Chicago Committee Has Made Close Analysis

The Chicago Metropolitan Home Builders Association committee on Housing Redevelopment of which Leonard R. McDonald is chairman. with the advice and counsel of the association attorney, John F. McCarthy, has made an exhaustive study of the possibilities lying within the provisions of the act and offer a suggested method of procedure to those who would like to try their hands at such cooperatives. The chairman has been bold enough to try out a "guinea pig" case, preliminaries of which have involved two trips to Washington, and the following procedure is offered as being most likely to avoid difficulties. Steps are as follows:

 Provide a definite or firm option on the land involved or other means of placing the site entirely under control.

 Prepare preliminary plans in sketch form in sufficient detail to avoid future differences. Make a preliminary estimate of cost.

Present the site, plans and estimates to FHA and arrive at a mutual preliminary understanding regarding location, plans and arrangements, and costs.

 Consult with bankers and know definitely where and how mortgage will be handled.

 Organize a corporation and prepare by-laws and cooperative leases. (These papers to date, require the approval of the Washington office of FHA. The chairman has obtained such approval for the so-called "guinea pig" case. Forms will be made available at the office of Attorney Mc-Carthy.

 Obtain from FHA a Preliminary Letter of Eligibility.

7. Proceed with the sale of stock and leases. Ninety per cent of the stock must be sold before the corporation can function. Each stockholder must be passed upon by FHA and found eligible for credit amounting to his share of the loan payment as represented by his rental. In connection with such sale, take from each stockholder an amount equal to his share of the difference between the total coat and the mortgage, plus a small amount to provide working capital.

 Present final plans to FHA and secure firm commitment, execute mortgage papers and proceed with construction.

#### All Types of Housing Covered

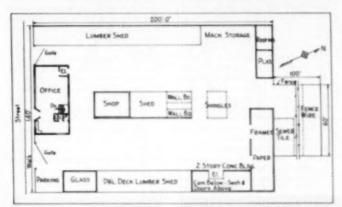
Under the provisions of the law any type of housing can be constructedsingle family dwellings, semi-detached and row housing or any type of apartments. Any stockholder may sell his stock and lease at any time with the approval of the corporation. In the cases of single family dwellings, semi-detached and row housing, he may also purchase his unit outright by paying to the corporation his share of the mortgage balance. There are no strings on this sale. It offers the greatest opportunity yet devised for home purchase, particularly to nonveteran stockholders.

#### Avoiding Doleys and Disintegration

It will be observed that the committee recommends the postponement of the actual sale of stock until all preliminaries except building construction have been completed. This is to avoid disintegration due to delays often encountered in similar transactions and anticipated here. A reasonable homogeneity of membership is also recommended.

# New Office Proof of Dealer's Half-Century of Success

OLD office shown in inset was adequate in company's early days, but expanding business made replacement imperative



USHAPED drive in plot plan provides easy entrance and exit to all storage space



PAINT is one of the major liters sold by this lumber yard. Therefore, special care went late construction of storage shelves and counters that are open for customer inspection

#### Progress and prosperity of dealer is attested to by grand opening of his new sales and office building

FIFTY-two years of successful business operations of the Lincoln Lumber Company, Plentywood, Montana, culminated in the grand opening of a new sales and office building this past spring. Founded in 1908 by Mr. A. Riba, the yards have been managed since 1910 by Mr. R. L. Rue who has promoted the company's interest in civic improvement and in better building construction and design.

The new building which measures 30 by 60 feet has a full basement and is constructed of concrete and concrete block with a stucco finish. Many of the items in the building, such as the Thermopane front window, sliding doors, Modernfold door and hitchen equipment, were incorporated in it for demonstration purposes.

Since paint is a major item in the company's business, the coverings used on the interior walls, floors and ceilings were selected to show applications of various paint products.

The building is equipped with an elevator, two bathrooms and is located in the front center of the yard.

The Lincoln Lumber Company operates a building plan department and works closely with a professional architectural service to provide skilled drafting for local builders.

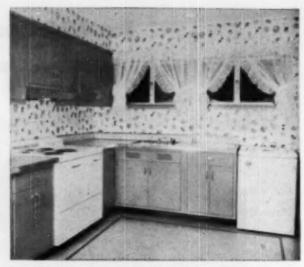


# 50 Personalized Homes from a Single Plan

First of a group of houses built from a standard plan. Each house to be personalized for buyers through design and materials

THE FIRST of 50 personalized homes to be erected in a quarter million dollar setting of flowering trees and shrubs on the former Percy Pyne estate in the village of Roslyn Harbor, Long Island, N. Y., has been opened for public inspection by Walter G. Stackler and Leonard L. Frank, builders.

This house, as well as others to be built, is placed on a one acre plot and contains 1,518 square feet of living area exclusive of the garage and basement. The sale price is \$23,800 including refrigerator, range, dishwasher, automatic laundry and exhaust fan. The L-shaped ranch-type house with three bedrooms, two baths and attached garage was designed by Alwin Cassens, Jr., Forest Hills architect.



KITCHEN is furnished complete with Kelvingtor refrigerator and range. General Electric dishwasher and Bendiz washer. Work counters are plastic topped

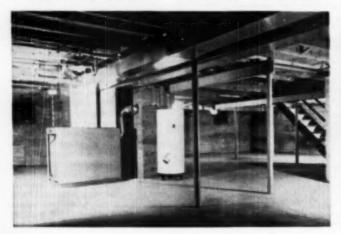
"Although we are building with a standard floor plan in order to hold down costs and selling prices, each of the 50 Mid-Century houses planned for the 75 acre development will be personalized for individual buyers." Builders Stackler and Frank said. "This will be accomplished by offering a variety of exterior designs which will provide changes in both roof and wall surfaces, exterior and interior finishes, or other changes necessary to meet the tastes and requirements of individual buyers. In addition, each house will be carefully oriented to its site to take full advantage of the desired exposures and at the same time to be properly screened from adjoining houses."

Close collaboration on the part of

architect and landscape architect in laying out the development has produced a house of contemporary design that will form the pattern of others which are to follow. Extensive glass areas on exposed walls in the main living rooms, open to the home owner a vista of flowering shrubs and trees on an area of rolling terrain, both to the front and rear of the property.

The window walls are divided into three horizontal tiers, the two lower tiers are all fixed sections and insulated with Twindow hermetically sealed sash. Abundant ventilation is provided by the aluminum casements in the upper tiers of the picture windows and windows at shoulder height in all other rooms.

The designers of this model house





CLEVER utilization of space is a feature of one bedroom. A quiet study nock is previded in alcove between closet and entry

THE BASEMENT, which extends under the entire house, in planned for maximum use. It has room for recreation and service units



BEDROOM
16 - 6 × 14 - 2

BATH

LIVING ROOM
27-2 × 15-0

RITCHEN
14 - 6 × 9 - 0

C

TERRACE

BEDROOM
13 - 2 × 12 - 0

13 - 2 × 10 - 2

SPACIOUSNESS is the keynote of the plan. All recens are genoreus in size with empire clausest well distributed. Picture windows on front and ready wall filed the living room with smallight



THIS Lahaped house with wide overhanging saves. Insed with a combination of double coursed coder shingles and varieouted fame brick, is designed to hissed well with the wooded and colling terrain

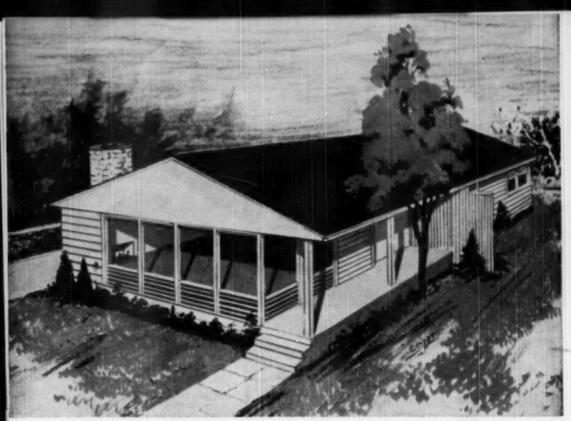
are commended for providing a living room sufficiently large to accommodate the occupants of three bedrooms and two baths. A full size dining room wing adds additional area to the living portion. A kitchen, one car garage and ample closets complete the layout.

A feature of the house is a huge basement containing 1,518 square feet. Equipment furnished includes a Rheen 52 gallon electric hot water heater and a warm air oil burner. The layout provides for a large recreation room, hobby room, workshop, laundry, clotheslines and other facilities.

Foundations are of 10 inch poured concrete on 18 inch footings. Most of the first floor joists are 3x8's sup-ported by steel girders and Lally columns. The house has a wood frame shell with face brick veneer facing in some portions and gray stained striated cedar shingles for balance of walls and gables. The house is insulated in side walls and ceilings with rock wool. Roofing is slate-surfaced asphalt shingles. Wide overhanging eaves all around the house, except at gable ends, afford protection from sun and rain. The garage is separated from the living quarters by an insulated, fire-resistant wall and ceiling,

VIEW of roor of house. Two picture windows occupy 14 fact of the 28 fact rear well of living and dining room. Extended eave provides protection from alements

AUGUST, 1950



A FRONT wall of glass lends on effect of openness to this house, designed to make most advantageous use of a narrow let

#### A House of Limited Frontage

A ONE-story dwelling that can be built on a 50 foot lot in urban areas is the type of house desired today by many potential home owners.

This month's blueprint house designed by Grainger, Thomas & Barr, architects, Seattle, Wash., reflects this type of planning. The featured front carrying back to approximately three fourths of the length of the house is contined to 25 feet 5 inches in width. This includes an entrance porch 5 feet wide and the width of the living room. The rear portion of the house is extended in width to include the

AMERICAN BUILDER

Blueprint House No. 44

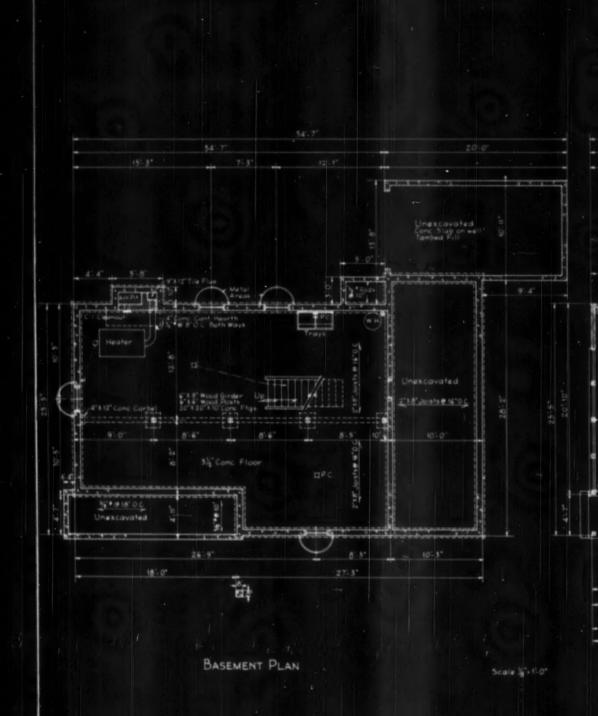
Grainger, Thomas & Barr, Architects

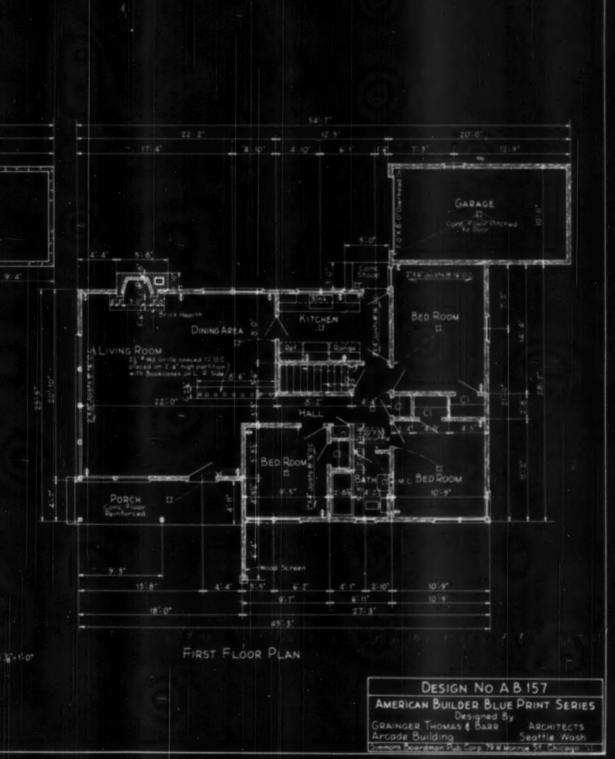
attached garage. This arrangement allows a wide, open area on the garage side of the house for the living rooms and kitchen.

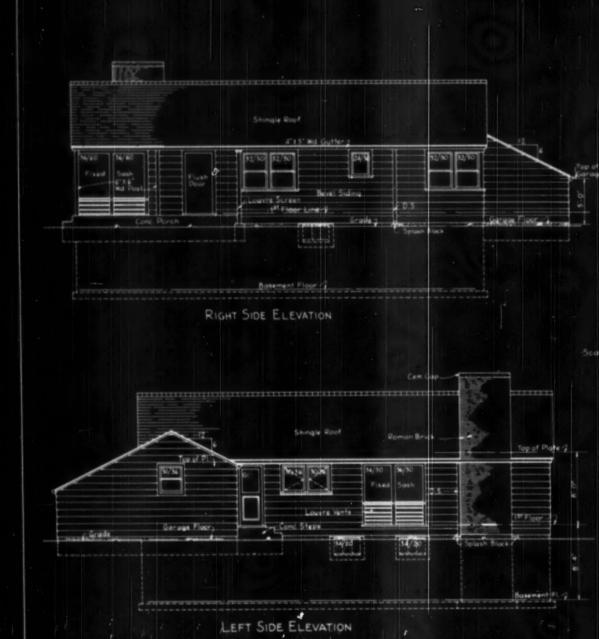
A feature of the house is the over-all economy of the design. The simple gable roof is unbroken in line except for the garage gable which overlaps the main gable but does not disturb the framing of the main roof. Simplified framing throughout is possible because of the rectangular shape of the house. An architectural feature that provides balance to the house is the wood louvre screen that extends from grade to underside of roof soffit, on the side of house opposite the garage.

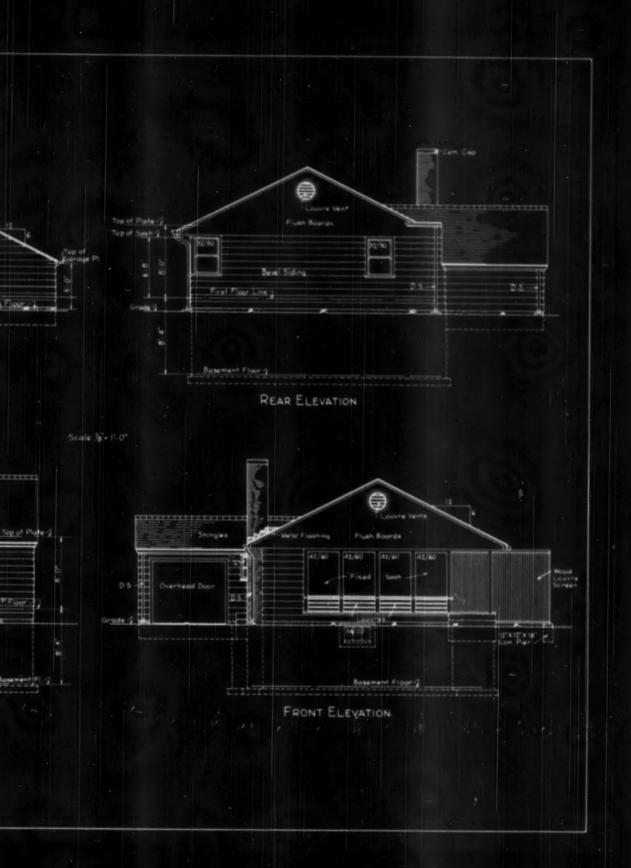
Six rooms are contained within the perimeter of the exterior walls. The rooms consist of three bedrooms and a hath and a combination living and dining room that is separated by a low wood screen. The living area of the house contains approximately 1012 square feet exclusive of the attached garage and entrance porch.

For complete one-quarter inch scale working plans of this house write American Builder Home Plan Service, 30 Church Street, New York 7, N. Y.









## what's back of this door?



Bo-Way Counhard Type Doore are orallable for all industrial, Commercial and its eduction installations including a new is also which resources and 21% including a new is also



There's a Rollay for every Doorway!

- A Progressive Company that has been in business for over 40 years under the same ownership and management.
- A Modern Plant equipped with many special machines—developed exclusively for the production of the finest overhead type doors at lower cost.
- A Door Foctory that does the whole job—even to making those famous "Power-Metered Springs," Friction-reducing tracks and ball bearing track rollers with double-thick trend.
- A Select Force of mill-lumber and steel buyers trained testing crews, and skilled workmen who have averaged more than 10 years on the job of making Ro-Way Doors the best that can be built.
- A Soles Organization that has always kept faith with architects, builders, contractors and home owners, so that today "Ro-Way" is the most sought after door franchise in America.
- A National Network of selected distributors competent to counsel intelligently with architects and builders and equipped to see that every Ro-Way Door is installed right.

That's What's Back of Every RO-WAY Door!

ROWE MANUFACTURING COMPANY

771 Holton Street . . Galesburg, Illinois

## BUILDER Selected Homes

THE living rooms on ground floor, bedrooms on intermedition, bedrooms on intermedition, the plan of this interaction the plan of this interaction three level house shown at right. Exterior tacing is notural colored stone and painted brick topped by a wood cedar shingle roof. Plan of ground and intermediate levels shown below.







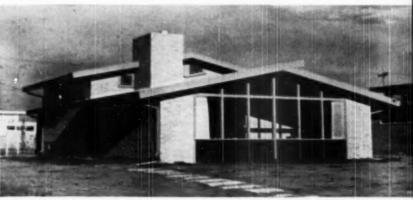
## Split Level Gains in Public Favor

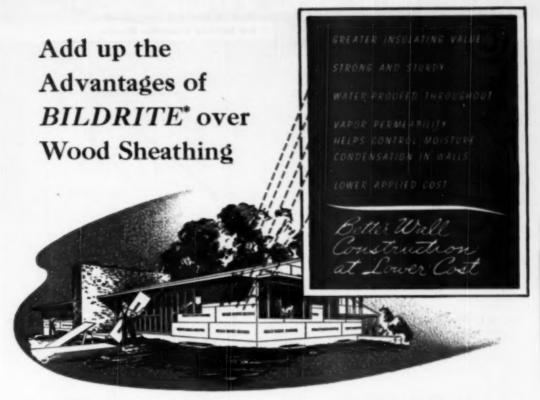
THE TWO houses shown on this page are part of a development of 35 homes designed and built by Edward B. Hawkins, Denver, Colo. This development consists of a group of one-story and split-level houses, that, because of the large variety of design in each of the houses, appear to be custom-made to conform to individual requirements. To obtain this effect is the goal of every operative builder, whether they be large or small, providing, of course, that economy in building is maintained.

The so-called split or tri-level house appears to be the answer to the one who does not like to climb the stairs of a full two-story house. Conversely, there are those that object to the ranch or one-story house because they do not provide for a basement. The split-level house takes care of both. One half flight of stairs up to the intermediate level with bedrooms off the ground, and one half flight down to a light basement, usually just the right size.

The house shown at top of page contains approximately 1.050 square feet of living area exclusive of garage and basement area. The house at bottom of page contains 1,325 square feet of living area with the same exceptions.

ANOTHER example of a trilevel house. The living room extends across the entire treat of dwelling. Ceiling line toilows the pitch of roof with fixed such extending to the underside of roof soffit. Bodrooms are at the upper level at the rear unit. The ground and intermediate floor level plum is shown above





#### TWICE THE INSULATING VALUE OF WOOD

In fact, more than twice the insulating value. By actual tests in a laboratory "cold room," BILD-RITE Sheathing proved to have 122% more insulating value than ordinary wood sheathing. That saves on fuel bills.

## 4 FT. WIDTHS OFFER TWICE THE BRACING STRENGTH OF WOOD

Here again, laboratory experiments with a MILLION pound testing machine proved that BILDRITE had more than twice the bracing strength of wood sheathing horizontally applied. Wood sheathed walls showed a ½" distortion at 1,021 lbs., but it took 2,179 lbs. to cause the same deflection in walls sheathed with 4 ft. widths of BILDRITE.



## VAPOR PERMEABILITY HELPS CONTROL MOISTURE CONDENSATION AND PROST IN WALLS

In a laboratory "ice box" big enough to hold a house, tests proved condensation in walls can be controlled by sealing the warm side and venting the cold side. This is the principle of the INSULITE "Wall of Protection"—recommended and used for ten years. Sealed Lok-Joint Lath seals the warm side. Vapor-permeable Bildrite on the cold side properly "breathes" vapor towards the outside.

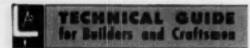
#### WATERPROOFED . . . EVERY FIBER PROTECTED

INSULITE is the original wood fiber structural insulating board—first made 36 years ago. It is waterproofed throughout—not merely a surface coating. Every fiber inside and outside is thoroughly—safely—adequately protected.

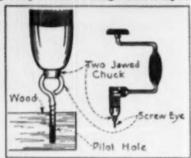
#### LOWER APPLIED COSTS

To get the real story on sheathing costs, you have to figure the total applied costs. BILDRITE takes only half the time to apply (compared with wood), eliminates waste material and building paper, reduces labor insurance costs. When you add it all up and compare, your best buy is BILDRITE.

San Sweet's File, for Suliders ~ 2gf8

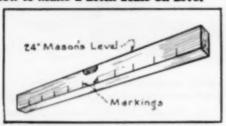


#### Easy Way to Drive Large Screw-Eyes



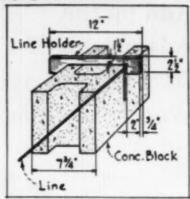
A breast drill is used to drive large screw-eyes into hardwood material. Undersized holes are first drilled as a starter, then the chuck of drill is placed over large screw-eyes as illustrated. Chuck is then released after screw-eye is in position.—Submitted by Herbert E. Fey, New Braunfels, Texas

#### How to Make a Brick Scale on Level



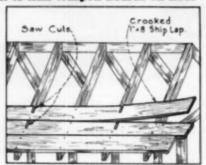
The task of laying out vertical brick joints on a wall surface for the brick mason can be greatly simplified by making a scale on the edge of level. Each space marked off on scale would represent a brick and joint, the entire length of scale to be marked off by using a sharp knife for marking.—Submitted by Oscar West, Bryan, Ohio

#### Now to Make a Line Holder for Laying Concrete Blocks



Wood line holder is made of ½ inch stock to fit snugly over top of concrete block while wall is in process of construction. This holder will work where other types run into difficulty.—Submitted by C. D. Robb, Frankfort, Ohio

#### How to Nail Warped Boards on Roof



Warped or curved boards can easily be secured to roof. Mark the exact location of rafters on boards and then saw cut one side as illustrated. Crooked board is drawn up tightly.—Herbert E. Fey, New Braunfels, Texas

#### HOM TO DO IT . HOM TO DO IT . HOM TO DO IT . HOW TO DO IT

### G-10 . . . Shoe Display Case

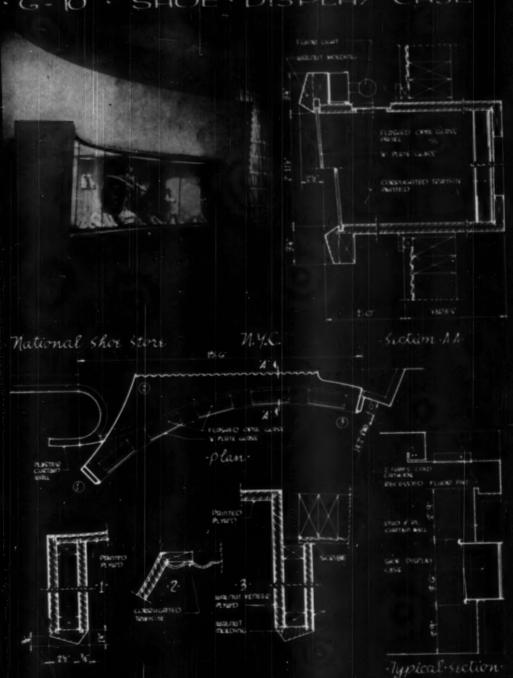
DISPLAY units, placed in strategic positions, often complement the displays shown in the exterior show window. They become a sales medium of inestimable value. The display case detailed on opposite page is located directly in rout of top of stairs leading to basement and consequently is seen and examined by many of the people that frequent this shop.

The problem before the designer was to create a shoe display case whereby the merchandise could be protected from the public, and yet afford a clear, unobstructed view of the entire content of the display. To protect the merchandise placed in the case from being handled indiscriminately by the public, intervals of plate glass were installed with open spaces between each length of plate glass. The open spaces are used for trimming purposes. Each length of glass can easily be removed by simply lifting and pulling out. This arrangement of glass gives the effect of an open display and yet does not permit the handling of merchandising displays.

The trim and return panels, both inside and out, are finished in bleached solid and walnut plywood panels. The interior background finished in plywood and corrugated transite is painted white and turquoise. The wall into which the case is recessed is painted a churtreuse shade. The floor of case is covered with rubber tile in a grayish green and white marbleization.

Designed by Louis J. Clushin for American Builder

## G- 10 · SHOE · DISPLAY · CASE ·





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  Contractors operatizing in all types of House Construction other home Building.

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  Buildings, said specializing in other.

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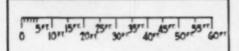
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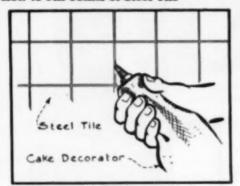


#### How to Scale Plans that are Printed in Magazines



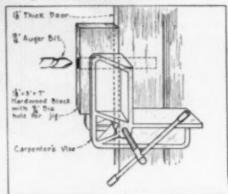
Use the bathtub as a unit of measurement and assume that it is five feet long. A small scale such as illustrated above can quickly and easily be made on this basis. The scale can then be used to measure any portion of the plan.—Submitted by J. G. Caldwell, San Mateo, Calif.

#### How to Fill Joints of Steel Tile



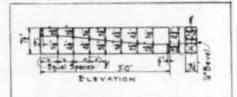
When installing steel tile on vertical wall surfaces use a cake decorator for filling in the joints in place of using a portion of the hand. This method keeps hands and tile clean and makes a neat job.—Submitted by LeRoy Bradley, Lorain, Ohio

#### How to Arrange a Bit Guide for Boring Holes for Door Locks



Guiding the bit is essential when drilling a hole for lock plunger or striker in end face of 1-½-thick door. This is best done by clamping a carpenter's vise to the face of door and inserting a hardwood block guide, which has a ½-is inch drilled hole, into the jaws of vise. The auger bit is then held in a level position for drilling by the guide,—Submitted by Fred Friedh, Logan, Utah

#### **How to Make Brackets for Door Hood**



By following the method indicated in the illustration a pair of wood brackets can be made from one piece of fir or cypress material with no waste. The brackets can be cut out with a hand saw.—C. D. Robb, Frankfort, Ohio

#### HOW TO DO IT . HOW TO DO IT . HOW TO DO IT . HOW TO DO IT

#### No. D-69 . . . Garage Ventilator and Bird House

WENTILATORS on top of garage roofs, while not required by law, are a safety measure well worth considering, especially when the garage is made a part of the house. Fumes from the car that are often retained within the garage need to find a natural and easy way of escape and this can be accomplished best by means of a roof ventilator.

In addition to its practical value the ventilator or cupola, as it is often called, can be a distinct architectural feature and enhance the appearance of the complete unit of house and garage. This type of feature adapts itself well where the garage is connected to the main part of the house by breezeway or purch.

Cupolas can take a number of different forms and sizes. Two of these types are shown in detail on opposite page. One is devoted primarily to ventilation of garage through the use of stationary louvres placed on all four sides of cupola. Roof rafters are framed under this unit for support.

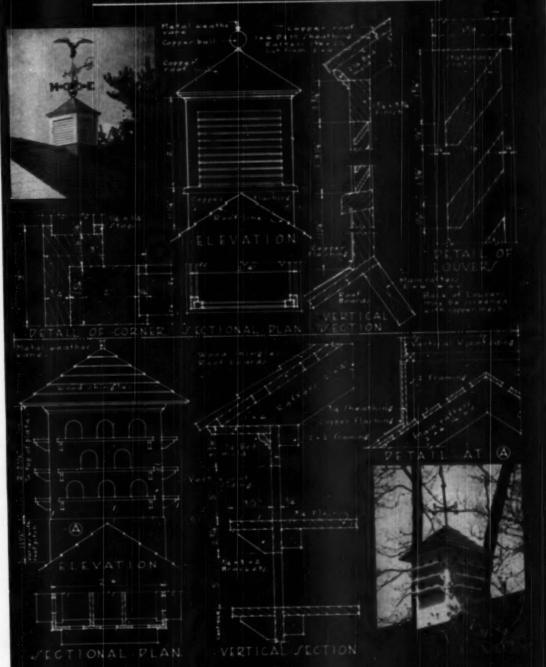
The other type indicates the use of the exposed portion above the roof as a bird house, with perforations made on all four sides, the size of openings to be governed by the kind of birds to be attracted. The roof sheathing over the main rafters under the cupola are to be laid with open joints, joints to be of a width to prevent birds from flying into the garage. The floor in the three levels of the bird house are to be laid in open joints to permit air to circulate through and ventilate the garage.

Size is of prime importance in the design of a cupola. This feature should be scaled in proportion to the garage structure and the roof and should be securely anchored to the roof framing.

## AMERICAN BUILDER'S BETTER DETAIL PLATE

Detailed by R. J. Alexander for American Builder

## PR69-VENTILATOR AND BIRD HOUSE



## For jobs that are "off the beaten path". . .



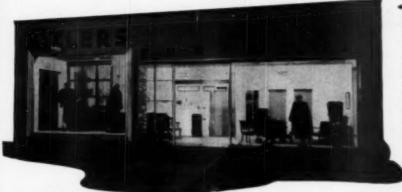
IN MANY RANCH-TYPE houses the trend is toward a fixed window wall, with louver-type vestilator. Here's something that homeowners will appreciate. For this construction, offered by Solar Air-Plo, Inc., Elkhart, Indiana, gives an unobstructed view through the Pittsburgh Twindow panels, with adequate ventilation and insulation. And louvered sections may be placed at top, bottom or sides of Twindow panels, according to design requirements.

THIS CUTAWAY shows the construction of a Twindow unit with two panes of Pittsburgh Plate Glass. The hermetically-sealed air space between the panes provides effective insulation which minimizes downdrafts, cuts heat lasses through windows, reduces condensation. Insulation is even more efficient when three or more panes are used. There are forty-five standard sizes available, adaptable either for wood or steel sash.





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burgh Freducts when you bid on a job. You'll find your selling job much easier.



HERE'S VALUE that can be seen and appreciated by the modern homemaker—Carrara Structural Glass on the bathruom walls. Carrara is easy to clean, lasts indefinitely, and is available in ten attractive colors to harmonize with any decorative scheme. Notice also the decorative panel above the tub, one of the many decorative possibilities inherent in Carrara Class. The smart Plate Glass shower enclosure also is a feature that is highly appreciated by homeowners.

MAKE YOUR HOMES more glamorous... please every member of the family, with this modern home necessity — a Pittsburgh full-length door mirror. And give your homes the added appeal of structural mirrors, to bring even more beauty to every room; to make living rooms, dining rooms, bedrooms look larger and brighter. All this means more profits—more repeat jobs—for you.



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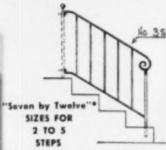
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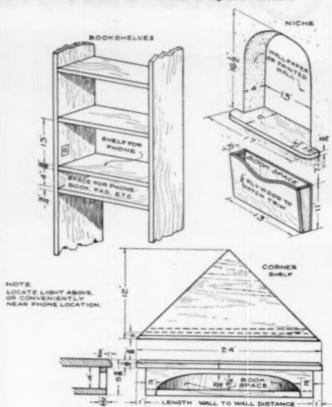
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## TECHNICAL GUIDE for Builders and Craftsmen

**How to Provide for Convenient Telephone Niches** 



WHERE to place the telephone is a problem in many new homes. Despite its importance to family needs the telephone is often poorly located, whether in the living, dining room, or elsewhere. The telephone niche illustrated above provides a location that can be convenient to all the members of the family at all times.

Whether it be for a new home o. a remodeling job, the telephone shelf is not difficult to install. It is designed to fit the space between two studs—studs or 2x4's being normally 16 inches on centers. The clear area between studs will allow space sufficient to box in the shelf as illustrated. If it is built according to the dimensions given it will not protrude excessively into the room. It is well to have a light outlet located in the niche or shelves or located conveniently close by. This in-

stallation is easily done during remodeling when the wall is open, by installing wires from the nearest outlet.

The corner shelf could be located in any central and convenient corner. Height of shelf from floor is the same as that of any ordinary table. A double shelf arrangement could be made, if desired, to care for the telephone directory, pad of paper, and pencils, Using space in open book shelves is another way of arranging for a telephone installation as shown in illustration. The selection of design and construction of this job will depend on the general interior appointments, whether it is English. Early Colonial, Spanish or other influence. Niche and shelves should be finished to match the trim of the room.-Submitted by Harold O. Akestn, East Orange, N.J.



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TAMPA, FLA. TRIBUNE Circ. D. 18,870 - 5.

### REAL ESTATE

## Early Start, Heavy Volume Is Noted In Home Building

Tribune Real Estate Editor

Many of the un-called experts the building industry shock to beads when E. G. Oavin, editor of t erican Smilder Magazine, predict home building would get und earlier this year than last

BOSTON, MASS. Christian Science Monitor Circ. D. 165.021

## U.S. Told to 'Build Up' Slums

Chicago The way to rid the cities of ms is not to tear down buildbut to bring them up to the ndards required by health regulations and building codes, G. Gaving, editor of America

CLEVELAND, OHIO PLAIN DEALER Circ. D. 271,027 - 5. 454,710

that home owners should insignat local decisions on federal pu

ac housing be made by referendu

e america that public house

inder Block Gains in

**As Home Building Material** 

vote, E. G. Gavin, editor of

ican Builder, declared yesters

Cinder block is a type of concrete block in which the aggregate is cinders instead of sand and grave

ne building has been made p

lta use as a major material

sible by progress in manufacture techniques and by many deve

ments in waterproofing compo-

As an example of modern ci construction, the bui magazine

use bellt in New York

"practically fireproof" to einder block aiding.

istant asphalt shingles, anot readily be kindle

American Builder explains.

"Cwners who fall to have the needed work done," the editor -stated, "are taken before a spe-

cial housing court where heavy fines are assessed."

Ms. Cayle contended that pro-grams the the Baltimore plan would remove any bureaucratic for enormously ex-

ic housing projects ; tax funds.

The cost of improvers Gavin as \$400 for each whit. But this also improvable of the property, wi **Builders Urge Local Voting** 

HAMMOND, IND.

TIMES

Circ. D. 15,150 - S. 18,025-

MAY 21 1950

ineer Urges lse of Various on Public Housing ProjectsType of Lighting

tle fluorescent lighting s worse than none at all. D. Westerberg of the elecengineering department of dweatern university. Writing erican Builder magazine, he

> TRIBUNE Circ. D. 40,844

#### Cinder block is proving to be a given a cement stucco finish. Ti satisfactory material for the walls were painted with residential construction in northern climates, says American Builder vent harmful condensation Soft Water Reduces aterior, floors are Operating Expens water

NEW YORK, N. Y. TIMES Circ. D. 541,269 - S. 1,077,060

VENTILATION SAVES PAINT

Excess Moisture Inside House May Blister Coating on Outside

Too much moisture house sometimes causes paint on the outside to blister and peel, sccording to Ame

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newspaper editors recognize AMERICAN BUILDER and its editors as alert, authoritative, and qualified spokesmen for the building industry

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A few of the stories which have been appearing in news papers recently quoting AMERICAN BUILDER are reproduced on this page-just a few, as 10,000 is a conservative estimate of the number of stories which newspaper subscribers, your buyers, are reading every month.

JOURNAL

TULSA, OKLA.

MAY 17 1950

ent for softening ; uts household operating and provides longer s and drains, says Ame

magazine r magazine. It is estimated that the col UN 4 1950 water averages from a year, depending on the POOR CHIMNEY amily, the magazine says WASTES FILE obably the most widely softening systems are

WASTES FUEL

Paulty chimneys usually are the n the employ the reclite per cause of wasteful fuel combustion full for says. Zee in home heating plants, says Guy, and in a water-softene. A. Voorhees, technical says Guy ich may be installed in the Mational. cause of wasteful fuel combustion d

SIOUX CITY, IA. Circ. D. 57,675 - 5. 6

JAN 2 9 1950

PASADENA, CALIF.

STAR-NEWS

## Color Favored for Fixtures in Bathroom

Demand for colored bathroom fixtures has increased sharply since the war, says American eazine.

aly are colored plumbfures more popular today ever before but there has a decided change in color erences," the magazine says. fore the war, ivory was the it popular color. Today tans, ens and blues are at the hea he list." merican ains

the plumbin S DOW ilable do not radically made he

SOUTH BEND, IND. TRIBUNE Circ. D. 92,745 - S. 91,040

PORTLAND, ME. TELEGRA Circ. S. 82 57

## Heating System For Basementless Homes

A radiant-forced warm air heating system has been developed to ditor Declares meet the need for a satisfactory American Builder magazine

Warm it is distributed through E. G. Gavin, editor of Americas under the flower at the mouth E. G. Gavin, editor of Americas under the flower at the mouth of the flower at the flower a ducts under the floor at the perian Buller magazine, says lum-meter of the house. Radiant heat resident magazine, says lum-rises from the ducts up into the resident magazine, says lum-rises from the ducts up into the resident magazine, says lum-walls. In addition, warm and the resident magazine says shows storms

ST. PAUL, MINN. PIONEER-PRESS Cir. D. 97,661 S. 145,901

APR 23 1950

#### Double-Glazed Glass Reduces Heating Cost

Double-glazed glass makes pos-the the use of large windows in err homes, reduces heating costs, and minimizes cold drafts of air, says American Builder meserine of ut American Builder

The magazine explains that a double-glazed window consists of two panes of glass separated by a hermetically sealed space. Instal-lations of this kind are used for picture windows.

"Originally available on a cus-tom-made basis only, these win-dows are now produced in a dows are now produced number of standard sizes. They offer a practical answer to heating and air-conditioning problems when large windows are desired," ret American Builder says.

A half-inch air space I the two panes of glass is mended. This air space hi insulating qualities. The pane of glass holds the ter ture of the room, while the stays at the outdoor

window. In summer, the limits the amount of heat can enter.

American Builder tells and prospective owners

ROCHESTER, N. Y. Democrat & Chronicle Circ. D. 104,811 - S. 155,723

Power Tools

FORT WAYNE, IND. NEWS-SENTINEL Circ. D. 75,441

JUN 3 1950

## eather Affected umber Market,

cont method of heating base-Don't blame the lumberman for houses, according to sing lumber prices. Blame the

the Witchen Color Ideas Approved

cepted in place of the cheerless hospital whiteness common dur-Jerter hospital whiteness common durindust American Builder, home building
home instants and application building constants to the standard colors which reflect the
personality of the housewife, the

is lowers colors which reflect the property of the housewife, the magazine explains. Selection of \* color scheme thus h the Her M FLINT, MICH.

JOURNAL Circ. D. 69,569 - S. 68,186

Extra Electrical abe Capacity Ur poi

May Save F -- ensive JACKSONVILLE, FLA.

TIMES-UNION Circ. D. 125,889 - S. 130,640

greatly reduces the amount Paint Quality heat that escapes out through the paint Quality window. Small Portion Of Job's Cost

. of painting usually enizage Because of this, a large tion in the price of materials

urability, appearance, cost

quent redecoration is desired. He zine.

the part of any of the big builders. ng International, Ayala, I

and downs of others.

Another a private-entorprise by is schoolwhile to "break Pebruary.

Every indication points to an may year in both business and dential construction.

One big factor in the early truction volume, often overlan the National Service Life Inc. retund which veterans will between new and June. Most developers are frankly after closcks.

They contend there's no wi a veteran could invest than You can bet annd home. estate people

in there battl dealers and o some heavily

nated-viny! Scoring. All these on most gray-stained re available in both solid colors and outcome, the tries in varieties patterns. variegated patterns.

The colors are permanent, Kitchen door materials also are reged In cleaning solutions. cleaning solutions.
America Built

dichen Wall Bays in paint wall materials wall for wallpaper on the panels and tile. are panels ceramic tite mouldings and tiles with sites, chromite tine to company tiles, chromite tine to company tiles, wall-fier, mura-ten tine ement boards with metal mura-tex and and panels are

inization as well as new lon, the magazine says uction, micron, ine makazine saya e malerials simplify the ioù haking a Ritchen a more not room in which to wook.

- combinations Suggest wook.

- combinations combinations SAYS obtained in the kitchen the use of several differill materials." American adda. This method has w houses nedds. This metrican noney by to reduce the cost, decaystern size of course, the cost, decaystern fall used. on the types ethod which has proved to maga-th, said son the cost of the cost of

CHARLOTTE, N. C. OBSERVER

Circ. D. 131,184 - 5. 137,607

ALTOONA, PA. MIRHOR Circ D.

HOME COLOR SCHE



brick on an end wall

roof

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impli

tould | rendil

same | range HARRISBURG, PA. NEWS (Evening) Circ. D. 65,124

# Inefficien

Inefficient arrangement of range drigerator, sink, cabinets and junters can cause a housewife to

## of painting the cost of Industry Shaping title if, says American Industry Shaping Home Week Plans

Make Building and similar factors of two years ago as a springboard two years ago as a springboard two years ago as a springboard to call attention to the home tal cost alone, the magasi building industry's achievements in the progressiveness. Will be obconsidered in paint selection served this year from September for use in homes, low cost pa 16-17, according to E. G. Gavin, owner to the progressiveness will be obconsidered suitable only if geditor of American Builder magazine.

POWER tools are used in construct, ever, a durable paint should in construct, ever, a durable paint should sociation of Home Builders, the making possible the present today used as a priming coat to mining sociation of Home Builders, the making possible the present production of surface prepara to expense of surface prepara to the expense of surface preparation association, the National Association and the National Association of Real Estate Boarda, building material manufacturers and

been observed into every cross-roads where there is a builder or

a building material dealer.

To give the program over-all direction, American Builder will co-ordinate the campaign at the national level.

A spot check of builders in 17 metropolitan areas by American Builder revealed sales of more than 7,000 homes valued in excess \$63 milion during National Home week in 1949.

trator, although a small refrigera



## Catalogs and HOW-TO-DO-IT INFORMATION

776—APARTMENT TELEPHONE SYSTEMS AND MAIL BOXES—A 24-page bulletin, No. 160, published by the Auth Electric Co., 34-20 Forty-fifth St., Long Island City I. N.Y., features a variety of inter-apartment telephone systems, apartment mail boxes, and telephone-mail box combinations, along with data on wiring and installation.

777—BATHROOM ACCESSORIES—Wide variety of bathroom accessories for almost every need are included in new literature available from Reliable Metal Novelty Co., Inc., 46 N. Second Ave., Mount Vernon, N. Y.

778—"GLAMOUR WITH GLASS"—Attractively illustrated 22-page catalog published by Pittsburgh Plate Glass Co., 632 Duquesne Way, Pittsburgh, Pa., shows several different ideas for use of glass in the home.

779—8TEEL KITCHEN CABINETS—Features and specifications of Jamestown White Steel kitchen cabinets are presented in a new catalog offered by Jamestown Metal Products, Inc., 178 Blackstone Ave., Jamestown, N. Y. Several illustrations are shown.

780—METAL TILE—"Tile In The Modern Manner" is the title of an attractive catalog offered by Hilton Manufacturing Co., 2525 Hilton Rd., Ferndale 20, Mich., which presents a recent development in insulated metal tile.

781—POWER TOOLS—Heavier power tools for use with wood, metal and plastic are described in a two-color, 36-page catalog issued by the Walker-Turner Division of Kearney and Trecker Corp., Plainfield, N.J. The well-illustrated booklet gives complete specifications and operating conditions for each machine.

782—HOME FREEZER—An attractive color folder distributed by the Kelvinator Division of Nash-Kelvinator Corp., Detroit 32, Mich., shows 1950 freezer models ranging in size from six to 20 cubic foot food storage capacity and includes specifications and operating features.

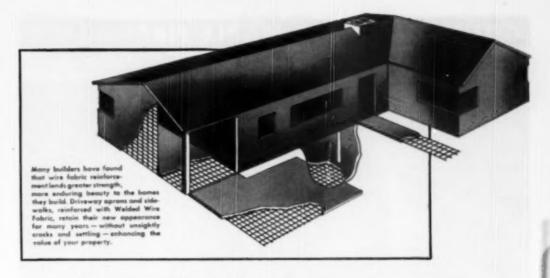
783—STEEL DOOR FRAMES—A booklet published by the Richmond Fireproof Door Co., Richmond, Ind., gives illustrations, specifications and installation details for the firm's factory-assembled and welded steel frames; and knockdown frames, assembled by the contractor.

784—WATER SOFTENER—An attractive loose-leaf booklet, "Why Permutit?" outlining the features of its water softener has been issued by the Permutit Co., 330 W. 42nd St., New York, N.Y. The material is interestingly presented and well-illustrated.

785—STEEL BASEMENT WINDOW — Detroit Steel Products Co., 3101 Griffin St., Detroit 11, Mich., has published a two-color bulletin, "The New Fenestra Steel Basement Window." Included are sizes, construction features and installation details.

786—ELECTRIC HEATERS—Two brochures distributed by the Electromode Corp., 43 Crouch St., Rochester 3, N.Y., feature electric room heaters and unit heaters.

(Continued on page 126)



# American Welded Wire Fabric

YOU can offer prospective buyers homes that will stay new by reinforcing concrete construction with American Welded Wire Fabric. Foundations, basements, floors and walls are joined into a single unit by the continuous reinforcement of American Welded Wire Fabric. Seepage and dampness, undue settling . . . which usually results in cracked plaster, warped baseboards, bulging wood floors . . . are prevented.

Sidewalks, curbs and driveways, too, stay free from unsightly cracks and fissures, hollows and hillocks, insure the good looks of home surroundings when you use American Welded Wire Fabric reinforcement. The many small, evenly spaced cold-drawn high strength members of Welded Wire Fabric fortify the entire concrete slab.

Make sure your new homes and the plots they occupy will remain good looking. Use the proper design and gauge of U·S·S American Welded Wire Fabric for each installation in house foundations, walls and floors and in the sidewalks, driveways and curbs that help adorn the home grounds.

You can get U·S·S American Welded Wire Fabric in every locality from jobbers' and dealers' stocks,

#### Complete Information and Guidance

It will pay you well to get the latest information on American Welded Wire Fabric. Send today for our illustrated folders, which show typical uses of wire fabric reinforcement in factories, farms, airports and public buildings, as well as in residences, side-walks, curbs and driveways. If you wish, our qualified experts will be glad to call and show you how you can use U 5.5 American Welded Wire Fabric to the best advantage. Just drop a line, on your business letterhead, to our nearest sales office.

AMERICAN STEEL & WIRE COMPANY, GENERAL OFFICES: CLEVELAND, ORIO

COLUMBIA STEEL COMPANY, SAN FRANCISCO PACIFIC COAST DISTERBUTORS TEMBESSEE COAL, 1800 & CALLEDAD COMPANY, BIRMINGDAM, SOUTHERD DISTRIBUTIONS GWITED STATES STEEL EXPORT COMPANY, NIW YORK



Every type of concrete construction needs



AMERICAN WELDED WIRE FABRIC

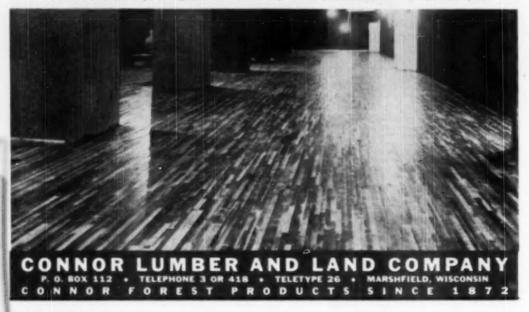
reinforcement

UNITED STATES STEEL

## CONNOR LAYTITE MAPLE FIRST AGAIN

The Minnesota Mining Company recently close Center "Laytite" Maple, third grade, is," face to fine the watchings before.

"Laytite" to made under Maple Floring Manufactures Association specifications and is forms for nations quality, Write for prime.



## Catalogs

(Continued from page 124)

Illustrated and described are kinds of installations, installation details and specifications. A number of models are shown of both heater types.

787—PARM BUILDINGS—The uses of glass block in farm structures are illustrated and discussed in a new eight-page brochure, "Outstanding Farm Buildings," released by the Pittsburgh Corning Corp., Pittsburgh, Pa.

788—FANS AND BLOWERS—A new catalog published by the Chelsea Fan and Blower Co., Inc., Irvington 11, N.J. (After August, 1950: Plainfield, N.J.) presents illustrations, performance data and other information on fans and blowers for a wide variety of uses.

789—HEAT AND HOT WATER UNIT—"The National Packet," a new automatic oil-fired heat and domestic hot water unit is described and illustrated in a four-page three-color catalog, No. 572, a publication of the National Radiator Co., Johnstown, Pa.

790—STEEL KITCHEN CABINETS—An attractively illustrated consumer folder, "Planning Your Kitchen is Fus," is being offered by the Berger Manufacturing Division of Republic Steel Corp., Canton 5, Ohio. Complete kitchen layouts are shown, as well as individual cabinet features.

791-HARDWARE FINISH AND SYMBOL CHART-A chart listing all the common builders' hard-

ware finishes with symbols as established by U.S. Bureau of Standards is being distributed by the Ajax Hardware Manufacturing Corp., 4351 Valley Blvd. Los Angeles 32, Calif. Also charted are 29 manufacturers with their respective symbols corresponding to those of the Bureau of Standards.

792—TWELVE MACHINES IN ONE—A single machine that will do crosscutting, ripping, jointing, dadoing, routing, boring, sanding, and many other jobs is described and illustrated in a new 4-page brochure issued by The Master Woodworker Manufacturing Co., Brush and E. Fort Sts., Detroit, Mich.

#### SERVICE COUPON-CLIP and MAIL to CHICAGO

Readers Service Department
American Buildor
79 W. Monrae St., Chicage 3, III.
Please send me additional information on the following product items, or catalogs, listed in this department:
Numbers
Name
Street
City Shate
OCCUPATION\*

\* Places note that accepation must be stated if full service in to be given.



Window Awrings Assembled permanent type Sizes 30", 34" and 42" widths Cotors Tile Red, Green or Blue



ARISTOCRAT



Door Canopies Sizes 46" and M" Accombind permanent type Colors Tile Red, Green or Bue

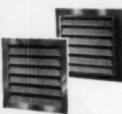


Louver Ornamental Shuffers





PLOWER BOXES M' LONG AVAILABLE IN 1 COLORS



ATTIC VENTILATORS



BOOF VENTILATORS



FOUNDATION VENTILATORS



PACKAGE RECEIVERS



CLOTHES CHUTE DOORS



"KITCHEN MAID" **DUST CHUTES** 



AUGUST, 1950

## Cut the time from "framed" to "finished" with a Stanley W7 Safety Saw

Make the most of the skill you pay for.

Give a good man a Stanley Safety Saw
and discover how much better he can be,
and discover how much better he can be,
thow much further he can spread his skill.

Handles as easily as a band saw. Duplex
handle and independent trigger switches
for use in all positions. Simple wing-nut
adjustment for depth of cut from 0 to
adjustment for depth of cut from 0 to
adjustment for depth of saw teeth at all
times. Motor and arbor mounted on sealed
times. Motor and arbor mounted on sealed
ball bearings. Tilting base for bevel cuts.
Operates on AC or DC.



This trade mark on electric tools tells you the most important thing you want to know about tools.

When you buy an electric tool you have to take somebody's word about gears, motor, bearings, shaft, switches, power, motor. Whose word about tools could be etc. Whose word about tools could be more reliable than the word of "Stanley" more reliable than the word of "Stanley" more reliable than the word of stanley for over 100 years. On an electric tool the name Stanley means the electric tool the name Stanley means the outside tool is quality built, thoroughly tested tool is quality built, covered by a generand honestly rated. Covered by a network of Stanley Service Stations. See your of Stanley Service Stations. See your dealer or write for complete catalog. Stanley Electric Tools, 492 Myrtle St., New Britain, Connecticut.



Stunior.

Hardware a Youth Hardware a Youth Hardware Teats o Steel Strapping a Steel Stantoy-Corter 35
Power Plane, powerful
electric phene with spiral
cutter and 18,000 c.p.m.,
1 h.m. maker removes
to the times on lost
wood five times on lost

Stenday - Cores (MB 8) 1/3 Bott Bouter (MB 8) 1/3 Bott Bouter (MB 8) 1/3 An An An An I 18,000 r. An An An I 18,000 routes perfectly home destroyers with just the right close packs.

#### Saberson

(Continued from page 91)

tion of an increasingly large segment of the vast army of bureaucrats who insist that Uncle knows best . . . and can do it better.

One reason for the widespread doubt that exists concerning the ability of Uncle Sam to handle a colossal job of this kind stems from the costliness of previous efforts in this direction and from the inefficient, extravagant manner in which other bureaucratic agencies go about their daily duties . . . the Post Office merely being one of the many examples.

I was discussing the subject with a friend only a day or so ago, only to find that he wasn't greatly concerned. "It's politics," he said with an alarming display of complacency.

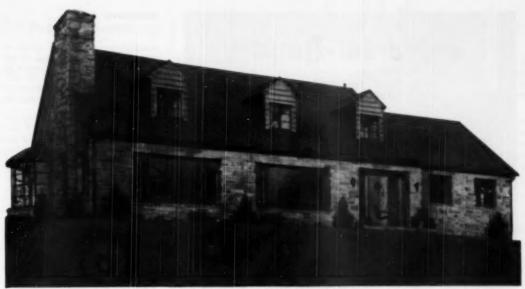
Now it so happens that my friend owns a home in a city that has recently voted favorably on a 2.000-unit project. He complains hitterly about his rapidly increasing tax burden but neglected to go to the polls when the public housing issue was being approved by the pathetically small number of voters who took the trouble to cast their ballots.

In the meantime, houses and apartment buildings are mushrooming in the city to such an extent that it already comes close to having more than it needs of both. My friend, who was offered \$22,500 for his twentyyear old home at the peak of the housing shortage, now doubts his ability to sell it for \$15,000. He hasn't figured out what will happen when the rapidly diminishing shortage finally turns into an overage and the 2.000 subsidized residential units rear their bureaucratic heads to add immeasurably to the confusion which is certain to exist when ways and means are sought for raising taxes on real estate values that unhappily will shrink in direct proportion to the size of the overage.

Many a retail merchant by this time has discovered that shortages are exceedingly annoying, to say the least, but that overages are far more so. During the war and the boom which still continues in many lines, he has often been impatient with some of his suppliers because of their inability to furnish enough of certain items to meet his full demand. Later on he learned to his dismay that it is practically impossible to make a satisfactory profit when overages finally supplant shortages, as they always do in the long run.

Perhaps I am unduly concerned about the zeal of the bureaucrats to take over bigger and bigger projects, even to providing the roofs over our

(Continued on page 130)



Residence of Perch P. Hankin, builder

## room with a viewand plenty of ventilation!



#### Operator 4715

is an inexpensive angledrive operator for residential wood casements. It is precision-built. handsome of line. heavily finished.

- · Case-bardened steel much integral with shaff
- al exact specifing angle
- · Hoosing of Zamak alloy
- Heavy bross channel goods, cadmium plated placel speculing arm:
- · Operators through screens
- Easily installed -2 moosurements, 6 screens
- Crank handle and event shaft sevrated on skip, no play
- Operators on casements corrying butfor extension binger (specify)
- Lubricalad for a lifetime of hard wear

CETTY-OPERATED SIDE CASEMENTS make any picture window complete. They provide as much or as little ventilation as desired. They respond instantly to the slightest turn, anchor securely at any opening. Getty operators thrive on twists and turns throughout their long life. And they're as trim-looking as they are tough,

That's why architects, builders, contractors, casement manufacturers, building material dealers, hardware jobbers and dealers specify, use and carry the Getty line. That's why Getty operators are found on more casement windows than all other operators combined,

Write for our descriptive brachuse D. It contains complete information on our three operators (internal gear, external gear, horizontal drive) and our specialty hardware for every type of wood and metal casement.

3348 NORTH 10th STREET



#### Saberson

(Continued from page 128)

heads. Being an ordinary citizen, I may be in water far too deep for my financial acumen when I attempt to ponder the eventual effects of continuous deficit spending. Assuredly I am not regarded as an authority on the subject.

In this connection there is a measure of consolation in the fact that I may not be alone in my ignorance. I am reminded of the casual reply of our ever-reassuring President when he was being questioned concerning the resignation of Dr. Edwin G. Nourse as Chairman of the Council of Economic Advisers.

"The Doctor is a nice old fellow," was the reported reply. "He just doesn't understand deficit spending."

Mebbe so. Mebbe too if the owners of a certain haberdasher store had enjoyed a better understanding of the full implications of deficits, the establishment might have prospered sufficiently to engage the continued attention of the former owners.

No doubt I am an old fogy but the thought will not down that what won't work in a necktie store won't work in larger affairs. Nor is it at all clear to me just why a Government that is making a mess of getting letters into the multitudinous mailboxes of the land should be so greatly concerned about taking over the houses to which they are attached.

In the meantime, the home building industry continues to hang up bigger and better construction records each year despite the former lugubrious predictions of many of our political prognosticators that it couldn't be done.

Nor is this unprecedented volume all there is to the story. It is the houses that speak eloquently for themselves ... comfortable, efficient, economical structures that are being built and lived in for less than if big, bungling Uncle Sam attempted to do the job.

All of which raises a question which no public houser has answered as far as I have been able to perceive. If better housing can be provided for less money through normal channels, why not take full advantages of such an opportunity?

The assumption that Uncle Sam can do it best is not justified by anything that is being done by overworked bureaucratic agencies—even to delivering the mail!

> Romomber NATIONAL HOME WEEK

September 10 to 17

# Meet 13,000 young men doing their well best to serve you

We're proud of these young men. We think you should know about them.

They're a hand-picked group learning to do an important job for you, for us, for everyone interested in the building industry.

These lads are the brickmason apprentices now enrolled in a nationwide training program being promoted by SCPI in cooperation with the BM&PIU.

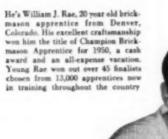
They are being enrolled at the rate of 3,000 per year. They are learning their trade well.

How well was recently shown in the finals of the 1950 national bricklaying competition held in Philadelphia. Here 45 sectional champions from 44 states went to work with trowel and mortar to demonstrate their skills before a thoroughly impressed audience of almost 400,000.

This competition is just one aspect of the day-in, day-out effort being made by manufacturers, government and labor unions to assure you a continuing supply of skilled craftsmen.

The success of this program is good news to all of us—good news that can be translated into decreased building coots, efficient workmanship, and satisfied buyers, every time you build or design with brick and tile.

# Meet the new Champ!



## 14 regional offices to help you —

Structural Clay Fraducts Institute New Haven 10, Conn., 341 State St.

New York 17, N. Y. 1949 Grand Control Terminal

Centen, Ohio, 306 Market Ave., No.

Pittsburgh 22, Pa.

502 Sanadum Treas Building

Chicago 1, Illinois, 228 N. La Salla St.

Ames, fews, 120% Walch Avenue

Council Bluffs, Iowa 257 Elmwood Drive

Hinnespelis 4, Minnespte 206 Wesley Temple Building

Denver 1, Cala., 208 Kittradge Bidg.

Phoenix, Arizona 1538 West McDowell Boss

1538 Wast McDowell Road San Francisco S. Calif.

35 New Montgomery Street

Seattle 4, Wesh., Central Building Clay Products Association

of the Southwest

Austin, Texas, Littlefield Building

Oklahoma City, Okla. First Hatlanal Bullding



MAIN OFFICE

CLAY PRODUCTS

INSTITUTE

1520 18th Street, N. W. Washington 6, D. C.



#### HERE'S ALL YOU DO!



After wallboard sections have been cemented and taped, simply brush or spray ONE coat of DRAMEX on the surface. That's all there is to it!



Instantly, wallboard seams, tape cement, and blemishes disappear. In their place appear new, placter-like surfaces in beautiful decorator colors.

NO SANDING, SIZING, OR SEC-OND COAT is required - regardless of what kind of wallboard or plasterboard is used! And, you can point over DRAMEX later, with all paint, if desired.

Why not make your Dry-Wall jobs this easy? DRAMEX is low-cost and saves you time and labor! Try it on your next Dry-Wall job. You'll never be without DRAMEX Interior Pinish!



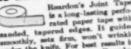
#### DRAMEX HIDES CRACKED PLASTER, TOO!

- & Colors Like Paint
- \* Resurfaces Like Plaster
- \* One Easy Coat Does Both Jobs
- \* Many Decarative Finishes Possible
- \* Mixes With Water, Stays Mixed
- \* Dries Without Blushing in 4 Hours
- \* Available in 8 Colors and White

## ASSURE TIGHT DRY-WALL JOINTS WITH REARDON'S JOINT CEMENT AND REARDON'S JOINT TAPE



Reardon's Joint Cement mixee and spreads easily, feathers to a fine edge, won't burn through or discolor finish contings. Use it to join wallboard sections, and to spot-in nailheada.



rated paper tape with sanded, tapered edges. It guides ennued, expered edges. It guides smoothly, sets firm, won't wrinkle under the knife. For best results in Dry. Wall, use both fine Reardon products. Order New.

#### THE REARDON COMPANY

Louis & Chicago V Los Angeles 21, Bayonne N.J. Montreal I

#### **Customer's Viewpoint**

(Continued from page 99)

preceding months and year, and an estimate of what the sales of the item are likely to be during the coming weeks is made. Based upon this estimate, it is decided whether or not an additional quantity of the item should be ordered, and if so, how much.

When an order is made, the quantity of the item ordered is entered in the column "Regular Order" under the month of the order. When the order is received, the quantity is circled. If an order has not been received by the time of the next stock count, a line is drawn through the quantity ordered, and this quantity is entered in the next month column.

Whenever it is necessary to place an order for an item in addition to the amount included in a regular order. this quantity is entered on the "Spot Order" line in the proper month column. When this quantity is received, a circle is drawn around it. If the spot order is not received, a line is drawn through the quantity and the quantity ordered is entered in the next month column.

The quantity of an item on hand at one stock count plus the additional quantity of the item received during the month plus the quantity of the item on hand at the next stock count gives the unit of sales of this item for the month.

For example, assume that an item is counted on the second of each month. On the second of January the item is counted, and the quantity on hand is found to be 50. Between January 2nd and February 2nd, 48 additional units are purchased or ordered as a regular order and are received. No spot order is made. On February 2nd the item is counted, and the quantity on hand is found to be 35. Sales of the item for January then would be 63 units. This is found by adding the quantity on hand January 2nd (50) to the quantity ordered and received during the month (48) and subtracting the quantity on hand February 2nd (35).

"On fast selling items," says Davis, "you will find it desirable, as an aid in preventing out-of-stocks, to make one or more spot checks between the regular stock counts." Usually a quick estimate, not an exact count, of the quantity on hand and on order is all that is necessary, If the quantity on hand and on order appear to be too low in relation to estimated sales, then an additional order in all probability should be placed.

Sales by quarters for both the current and preceding year are posted in the spaces divided by diagonal lines

#### Customer's Viewpoint

and designated "Last Year" and "This Year." Sales for quarters for last year should be posted to the current Unit Buying Control pages at the beginning of the year, Davis recommends. This will provide for a more readily available comparison with the current sales figures as the year progresses.

#### **Combined Experience**

Long on ideas, Jack C. Davis came into the business in 1937 after his graduation from the University of Oklahoma. Before putting his ideas to work, he followed a practice of tempering them with the judgement of his father, William R., who spent 28 years in the employ of the Long-Bell Lumber Company, 25 of these years as district sales manager. Together the father-son team has built the present organization, with William Davis now in charge of home construction for the company. The firm builds about 12 homes a year.

#### Dealer Kit is Effective Kitchen Planning Aid

A new Kitchen Planning Kit, now being made available to its dealers by Curtis Companies, Inc., consists of more than 100 units, contained in an attractive leather carrying case. By use of the kit dealers can plan a kitchen to fit customers' needs and means.

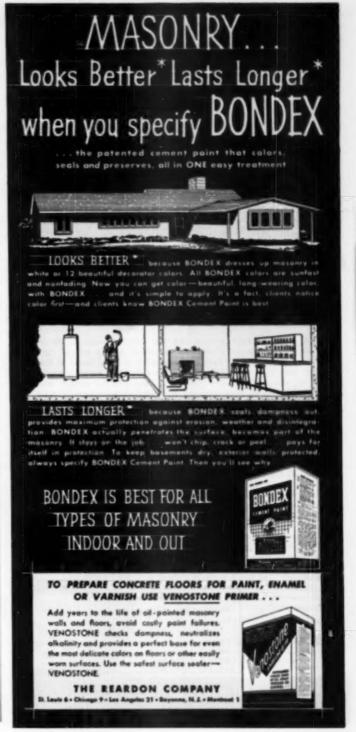
In using the kit, the dealer sets up a miniature room which is adjustable

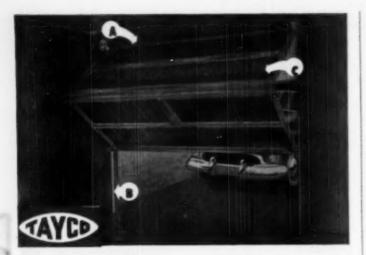


KIT (eqtures adjustable Kitchen replica

to the size of space available. Exact replicas of Curtis kitchen cabinets are then fitted into this room. The tiny cabinets are made of plastic, finely molded to show exterior details. Each piece is stamped with the unit number of the full size cabinet it represents in order to facilitate ordering.

The planning kit includes doors, windows, a floor, and the room walls, to simulate the actual kitchen. Included also are a miniature stove and refrigerator so that prospects may see how Curtis cabinets fit in with other standard kitchen equipment.





## Easiest Door to Sell ...

because: Home owners are attracted by the ease of operation, incomparable beauty, painted or natural finish, and trouble-free service. Lifetime aluminum means no rust, no rot, no warping, or expensive repairs.

because: Builders appreciate the extreme simplicity of design and installation. The torsional spring motor (A) having a through shaft and mounted on the back of the top panel, is wound for correct tension before shipment. Only six wood screws (B) are required to attach the door to the garage opening and this can be accomplished by two men in forty-five minutes.

because: Dealers prefer a quality product with repeat sales and not requiring service. Also, the single carton packaging reduces warehouse space and simplifies handling. TAYCO standard size deors are adaptable to undersize epenings, so that practically any opening can be supplied from stock.

because: Perfect Service is guaranteed by the high quality, rugged components and expert workmanship. Cover Sheets and Braces (C) are .032" thick tough allay aluminum; Rollers are Ball Bearing, Rubber Tired; Pivot Pins operate in lifetime lubricated Branze Bushings; the snap type locking device is actuated by Yale Locks; Spring Shaft operates in  $\frac{1}{2}$ " Ball Bearings, and the Lift Cables are Aircraft quality with a safety factor of twenty-five to one.



504	P	NNG.	CARTO	94
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849 M	wieths \$	breat,	N.W.	Attord	in, Georgi		
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None					*******	*****	☐ Whalesoler
Addres	8						☐ Beater
City							☐ Builder

849 MARIETTA STREET, N. W. . . . ATLANTA, GEORGIA

#### **NEW PRODUCTS**

(Continued from page 64)

INTERLOCKING SHINGLES

A\$85020

Asphart Sto-Lock shingles have exclusive interlecking design which assures 100 per cent double and 42 per cent triple coverage over



reaf orea and permits each shingle to be secured to road or adjacent shingles at eight separate points. Petern creates distinctive road ax well as preventing shingle "blow-ups." Available in Calotax color blands and deepgrained textures. Calotax color blands and deepgrained textures. Calotax Carp., Dept. All, 120 South Lofallis St., Chicago 3, III.

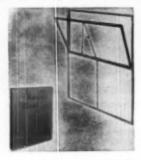
#### GARAGE DOOR HARDWARE ABSSOR

Tavort 49 er model hardware for upward-acting garage doors comes essembled ready to install on door and jamb. Requiring only eight inches of overhead clearance, movement of door is powered by all-tempeted springs. Has no weights, trocks, pullays or cables. Main pivar revolves in railer bisarings. Hardware is made of bearly gauge steel throughout. Tavort Co., Dept. AB, 15134 5. Orisaba Ave., Paramount. Calif.

#### UTILITY WINDOW

A885021

Fenestrii utility wisdow is especially designed to fit concrete block construction and is recommended for use along drives, alleys or street fronts where opening such do not protrude order.



lof lines. In restroorts, top opening sosh provide ventilation with privacy. Also used in commercial buildings, an-aways, exposed basenest walls and garages. Unit, standardized in one size only-2 feet, 9½, inches wide by 3 feet 5½-inches high, is aveilable completely pactaged. Unitry window is shipped in three ways. Package A—glazed window with screen only or as unglazed window with screen only or as unglazed window not pack aged. Detroit Sheel Products Co., Dept. AB, 3101 Celffle Street, Detrius 11, Mitch.

(Continued on page 136)

134

## They're Hanging Their Memory on the Wall



"Puts words in their mouth," this new wall chart which gives pennylengths of nails. Hung in building supplier's office, it helps clerks and customers. Tells of "Zinclad" nails' heavier coating, longer wear, too.

Been in the business a long time, have you? Then, what's the length of a 5-penny nail, or a 10-penny?

Today many dealers and their builder customers have all this information in plain sight, hanging right in the building supplier's office. It's a bright, new wall chart ust issued by the W. H. Maze Company, Peru, III., makers of the well-known "Zindad" oil.

Aiding both clerk and customer in ordering, and filling the order, a chart of "Penny-Wise Nail Lengths"—from 2 so 60 penny—gives the answer at a glance. At the same time it briefly tells the story of "Zinclad," the "Nail with the Weather-Proof Coat."

Many dealers and builders are still unware of the big difference between galvanized and "Zinclad" nails. They don't realize that galvanized nails are tumbled in a harrel—receiving a coating in the same manner that popcorn is buttered. But "Zioclod" nails are actually dipped in pure, molten zinc for complete, uniform coating over every part of the nail surface. As the wall chart points out, this means a heavier coating, a longer nail life, with no rusting, no discoloration!

To emphasize the difference, the wall chart pictures the 5-lb. "Zinclad" carton. Says "Look for ZINC-DIPPED on the Top of the Box"—one, sure way to distinguish the dipped nail from other types.

Dealers now requesting the wall chart say it's something long needed for their own use, and their customers, too. "And it might suggest to our customers that being pennywise is pound foolish when they're fooling for a nail that should wear as long as the material it's fastening."



. . . but "Zinclad's" biggest help to the industry is effering a nail actually dipped in molten zinc, not just galvanized, for a coating that will outlast the building itself.

## WEATHER-PROOF NAILS FOR BIGGER SALES!



IF THEY'RE MAZE "ZINCLAD," THEY'RE HOT-DIPPED FOR A HEAVIER COATING, LONGER LIFE

The difference is in WEATHER-PROOF WEARI Maze "Zinclad" nails are hot-dipped in pure molten zinc for a much heavier coating than usual galvanized nails. You pay just a few cents more for a LOT MORE in nail life, weather-resistance, no discoloration in the years ahead. Every type: Roofing, shingle, spiral, butt, asphalt, siding, common, cribber. See your dealer, or write for samples, literature.

OTHER MAZE MADE NAILS: Load hood, pollet, bronze and stoliness steel exhestes face, galranized roofing, pointed asphalt siding, copper, screw, ring shenk, and load head roofing fasteners.

W. H. MAZE COMPANY



Is it any wonder that Paine Rezo is the door most specified, most demanded and most insisted upon by architects and contractors everywhere. See SWEET'S FILE, or write directly for a data bulletin.

PINE LUBER (O. LTD. Wisconsis

**NEW PRODUCTS** 

(Continued from page 134)

FLOAT VALVE

ARRESON

New floor valve provides fast refill, putting four gallans of water in tank in about 11% minutes at preserves ranging from 25 to 190 pounds. Scientil M-VB# ld valve is fully adjustable by means of baseful regulator floor



held securely by lecking screws. Compound feverage action assures positive shutoff of presures on high on 150 pounds. Design embodies long, cone-shaped valve seat and regulation with vatire glunger equipped with composition seat washer and chrome tan leather split ring wather to prevent inspiriting. Supply table is of heavy-goinge-seatless copper habition. Easily serviced by certaying single thumbacrew from cross lever to withdraw entire regulator-plunger assembly. Water-life Div., Dept. AB, Scovill Manufacturing Co., Waterville 14. Con.

#### SOLID CORF PLUSH DOOR ABESOTS

New Hasks Solid for exterior grade flish door has high warp resistance. Solid pine blocks from 11% to 2 inches wide and up to 20 inches long make up solid core. Wide rails at top and



bottom seal end grain and permit up to %-inchtime from each end. Selected birch or other wenears or used on toces. Stiles one made of some wood as laces. Between faces and core is 1/10-arch toppe of franchwood cross-bounding. Sinitive assembly is hot platte press bonded with waterproof glues. Doars, available with cutouts for glazing, are produced in four standard sizes. Haskelite Menufacturing Corporation, Dept. AB, Grond Bapids 2, Mich.

(Continued on page 140)

## Sell NATIONAL LOCK

the customer-preferred bardware line

## WOOD SCREW ASSORTMENT-

WITH HANDI-SERVE COUNTER MERCHANDISER

A well-balanced assortment with 18 different sizes and diameters of the most called-for wood screws. Includes Flat Head Cadmium Plated, Round Head Nickel Plated, Flat Head Solid Brass. Screws are packaged in tough cellophane envelopes offering selection by color. Sturdy counter merchandiser has rotating axis for easy inspection of merchandise. A profit-proved assortment available immediately from your jobber. Open stock if desired.



## PERIOD FURNITURE TRIM

AUTHENTIC... WIDELY POPULAR ... SKILLFULLY REPRODUCED

Consists of ten of our finest, selected furniture trimitems. These reproductions are authentically correct...tichly finished in French Gilt and Antique English. Knobs and pulls are easily applied to old or new furniture. Provided with beautiful walnut display board that suggests actual application, Envelope packaging provides oasy identification.



## POSITIVE-ACTION LATCH-

TUTCH LATCH OPENS DOORS
AUTOMATICALLY...WITH A
GENTLE TOUCH

One of the newest, most unique cabinet hardware items on the market. TUTCH LATCH opens doors automatically with a gentle touch of finger, wrist or elbow. Assures many years of smooth, positive latching action. Easily applied. Envelope packaged, Available with visual counter demonstrator.



## SASH HARDWARE

LOCKS, LIFTS, ADJUSTERS, HANGERS

At National Lock you'll find everything needed for a complete line of sash hardware. Durably built to last for years. Attractively packaged and clearly labelled for quick identification and easy handling



ORDER FROM YOUR JOBBER

SASH LIFTS

FURNITURE TRIM

TUTCH LATCH

## BOOK REVIEW



# A SPECIAL

Here's an easy way to get new essential information that will help you increase your income. Every volume a standard work by leading authority. Remember—it's the informed builder who is the successful builder.

#### THE MASONRY HOUSE

by Lee Frankl, Training Thru-Sight Annelatra. First Edition, 125 pages, Shattrafed, 8% inches by 11 inches. Duell, Siese & Pearce, Inc. \$2.95. No. 26 to adjoining colouss.

Once in a great while a building book is published that by freshness of approach and simplicity of instruction immediately establishes itself as an outstanding work in its field. Lee Frankl and his Training-Thru-Sight staff together with the Structural Clay Products Institute have prepared just that sort of book in THE MASONRY HOUSE, a practical step-by-step guide to brick and tile construction in modern homes.

What makes this book unique is not alone that the information it presents is authoritative and thorough, but that the teaching technique employed with its simple, logical text keyed directly with clear, well-labeled illustrations is ideally suited for school or home study use. By this method the reader is shown exactly how a brick masonry house is constructed using designs and materials based on a standard 4-inch unit of measurement thus reducing costs and at the same time vastly improving the quality of workmanship. In brief, every question that a builder might ask about this kind of construction, whether it concerns tools, materials, or procedure from the first marking of the ground to the installation of the roof is fully and clearly answered. Basic sections deal with Selection of Materials, Masonry Tools, Storage of Tools and Materials, Types of Construction, and On-the-Site-Construction which devotes itself to each step taken in building the masonry engineered house. In addition there are special plans for roof framing, cavity wall and basement wall sections.

#### THE ART OF BRICKLAYING.

by J. Edgar Ray. First Edition, 340 pages, illustrated. 554 inches by 854 inches. Chos. A. Bennett Co. \$4.00. No. 25 in adjoining column.

Another fine book that has recently been published and which serves a definite purpose in supplying solid job instruction is this handbook by J. Edgar Ray. As the title states and as every construction man knows, bricklaying is indeed an art. Therefore it is impossible to overstress the value of a reliable reference volume such as this written for contractors, journeymen bricklayers, and as a text for apprentices in the building trades. The fact that the author was a card-carrying bricklayer for forty-two years and is now a teacher of bricklaying at Stout Institute in Wisconsin makes the book's authority just that much more convincing.

In addition to excellent step-by-step instruction, some outstanding features of this work are its 133 illustrations, a glossary of 400 bricklaying trade terms, and special sections dealing with ornamental brickwork, scaffolding and the laying of cement block. For a variety of good reasons we find this an easy book to recommend.

#### **ESTIMATING**

- THE BUILDING ESTIMATOR'S REFERENCE BOOK and Vest Pocket Estimater (not sold separately). By Frank R. Walker. Contains latest estimating and cost data on everything that goes into house construction. Most complete compilation of setimating and cost data available. \$10.90.
- THE BUILDING COST CALCULATOR. By John R. Smith. A system for carriving at building construction cast by use of schedules giving cost of standard units of construction at varying costs of labor and materials. 310.50.
- SIMPLIFIED CARPENTRY ESTIMATING. By J. W. Wilson
  and Cloil M. Rogers. Everything needed to "tuke-off" a bill
  of materials from set of plans and specifications for a fromse
  house—with many helpful quick-reference tables and shortcut methods that simplify the work. \$3.50.
- THE BUILDING TRADES HANDBOOK. Ready reference on building subjects—mathematics, architectural drawing, structural design, materials and methods, \$1.75.
- CONTRACTOR'S MATERIAL LIST. A 10-column take-off form for complete listing of materials and labor costs. \$1.00.
- SPECIFICATIONS. Full set of detailed house specifications (and item Index), with spaces for inserting the pertinent description data. 8.58.

#### CARPENTRY AND BUILDING

- HOUSE CONSTRUCTION DETAILS. Compiled by Nelson L. Burbonk. Exact working quide on every detail of house construction from foundation to finish. Tells dimensions, materials, processes, step-by-step working methods. 34.50.
- HOUSE CARPENTRY AND JOINERY. By Nelson L. Burbank. Every step of carpentry in and around a house, clearly explained and illustrated. Covers every job from foundation forms to interior trim. 33.98.
- PRACTICAL JOB POINTERS. More than 836 "tricks of the trade." short cuis. kinks and modern methods of doing all kinds of carpentry and building repair jobs. Cross-indoxed lor quick reference. Fully illustrated. 84.00.

#### THE STEEL SQUARE

- STEEL SQUARE POCKET BOOK. By Dwight L. Steddard. Illustrated and worked-out problems of laying out common raties. hipped. octuges. hexagesal and circular roofs. roofs of uneven pitch. and curved roofs. \$1.25.
- STEEL SQUARE. By Githert Townsend. This how-to-do-it steel square instruction book provides fundamentals plus step-by-step house construction problems solved by proper steel square use. \$2.15.
- SIMPLIFIED STAIR LAYOUT. By J. Douglas Wilson and S. O. Werner. Bask: work book presenting easily understood fundamentals of stair building. \$1.50.
- STAIR BUILDING. By Gilbert Townsond. S.B. Fully lilustrated explanation of every problem in design and construction of states. 32.50.

# BOOK ORDER SERVICE-

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- AMERICA'S BEST SMALL HOUSES. Exterior and interior views. Soor plan sketches, sorterful specifications and descriptions of 48 new low-cost houses. \$3.95.
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- DUPLEX AND APARTMENT HOUSES. By J. W. Lindstrom. Floor plun sketches and brief descriptions of 35 duplexes.
   4-apartment buildings. and 5 larger ones ranging from 6 to 12 apartments. Cubic toolage given. \$1.00.
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- PREMIER BOOK OF GARAGE PLANS. Full-scale working biueprints and pictures of one and two-car garages. Not new, but only look supplying plans. 5.50.

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- MODERN METHODS OF HOME HEATING. Standard heating systems illustrated with 17 floor plans showing heating outlets. 40 photos of equipment and installations. 25 holler and piping connection diagrams, and 11 heat loss calculating tables. 8.50.
- HOW TO DESIGN AND INSTALL PLUMBING. By A. J. Matthias. Jr. Every step in the design and installation of the plumbing system, to fulfill requirements indicated in blueprints and specifications, explained and illustrated. \$3,50.

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 PRICE GUIDE FOR PAINTERS AND DECORATORS. Tables covering practically every type of work done by the painter and decerator. with suggested prices based on various ways scales, \$1.25.  PAINTING AND DECORATING CRAFTSMAN'S MANUAL. Sponsored by the Painting and Decorating Contractors of America, \$2.00.

#### BRICKWORK AND MASONRY

- THE ART OF BRICKLAYING. By J. Edgar Buy, Basic bricklaying job instruction, many illustrations, glassary, special scaffolding and coment black chapters, \$4.00.
- THE MASONEY HOUSE. By Lee Franki. Training-Thro Sight Associates. Inc. Step-by-step quide to complete house construction in brick and this. Excellent self-seches. \$2.55.
- MASONRY SIMPLIFIED, Vol. II. Practical mesonry procedures in the various phoses of construction from building forms for concrete to constructing fixepolecus and septic tank systems. Includes discussion of bundling new products such as glass blacks, waterproofing mixtures and insulating blacks. 5.00.

#### ELECTRIC WIRING

- INTERIOR ELECTRIC WIRING AND ESTIMATING. By Albert Uhl. A. L. Nelson and C. H. Dunlap, How-to-de-It book on interior wiring and cost ostimating. 82.75.
- WESTINGHOUSE HOME WIRING HANDBOOK. By A. Carl Bredahl. A quide for planning the wiring of moderatepriced homes, with emphasis on safety. effectiveness and efficiency, 81,00.

#### MISCELLANEOUS

- 10. HOME BUILDERS MANUAL FOR CONTRACTORS. Prevides convenient data used check lists to inlice all operations connected with construction of a home. Looseleaf binder permits additions of special material pertaining to project being constructed. \$5.00.
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- BOOE OF SUCCESSFUL FIREPLACES. Best available best on how to construct indoor and outdoor fireplaces. \$.50.
- SUNSET BARBECUE SOOK. Hundreds of block for building and using outdoor fireplaces and grills. Detail drawings of 25 basic types. Cooking recipes a plus feature. \$1.50.
- LUMBER DATA. Lefax Data Sheets. Handy pocket-elsed handbook containing all kinds of important data having to do with lumber and timber. \$1.00.







# DEPENDABLE PERFORMERS

in Paine's complete line of hanging and fastening decices

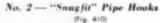
#### THAT GIVE LASTING SERVICE

Whatever the hanging and fastening problem is, Paine has the answer. Whether you need a special size or shape for a special job, or whether it is standard, you get prompt delivery and uniform, top quality from Paine, For Paine anticipates your every need to give you faster, all-around service. Check the three items described below. They are typical of Paine's complete line of dependable devices that help you do a better job.

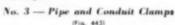


## No. 1 — Hanger Rings and Bolts (Fig. 600)

Ideal for supporting pipes, conduit and armored cable. Smoothly plated for modern appearance and lasting finish. Bolts are precision threaded and are also plated for easier handling. Each ring is stamped for quick identification. Packed in handy boxes for shell starage.



Paine "Sought" Pipe Hooks give these extra advantages: 1. Hook-ends are needle sharp, , penetrate the toughest materials. Have a hammer head that makes them easy to "drive home". 2. Hooks are "formfit" so that they cover a greater circumsference of pipe for full support. 3. Seven dismeters are made in four lengths.



Especially designed to permanently hold or secure, with or without porcelain bushings, pipe, thin wall or rigid conduit and armored cable. Correct sized stove bolt furnished free with each clamp. Correct eize to plainly marked on each clamp. The ½" hole in base of clamp allows use of Paine anchor or Toggle Bolt to fasten objects securely to wall or reiling. Thickness of stock plus rigidity of device withstands shocks or vibrations.



The PAINE CO. 2959 Carroll Ave., Chicago 12, Illa

Offices in Principal Cities

The Best Craftsmen Always Take PAINE

#### **NEW PRODUCTS**

(Continued from page 136)

#### TRACKLESS RECESSED DOOR ARESOSA

Flo-Dor trackless unit for recessed doors prevides trae-Bacting action without tracks as ofisping problems. Door is supported by two angle brackets on inner edge and "rides" on bracket sup-

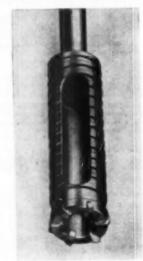


part, arms and retary gear arms. Complete installiation file within standard 72.4-inch shuds. Extra-chick wells are not required. Units are produced to fit all standard door sizes. Mechanism sides into graved base plate and is locked in position with one screw. Ease of installation strees construction time. File Jose, Inc., Dept. A8, 8331 Exposition Bird., Culver City, Colif.

#### CONCRETE DRILL BIT

A885010

KonKrote Kore drills are of "conterless clessys and are furnished in sizes from 3/16 to 7/16 inches. Because it has no center point to act as



pivot, new drill penetrotes concrete of speeds up to six inches per minute with less pressure than required for ordinary drills. Pubersized core porticles escape through side exhoust slot. Used with drafinary electric drills at speeds from 500 to 1200 r.p.m. Drills up to 30 feet without resharpening. Tilden Tool Manufactoring Co., Dept. AB, 1995 N. Foir Dolbs, Posodoma 3. Colid.

(Continued on page 162)

# Duty Designed TIMKEN Silent Automatic

# To Help You Build Better Homes Within Your Construction Budget!

KITCHEN-TYPE OR BOILERS
—the most revolutionary development in modern smolilaces heating—automatically heat the home, also supply ample decreatic but water.







"BUTY-DESIGNED" OR. HI-BOHERS are built to give small bomes all the comforts of modern all bent-plus automatic denestic but water. Unusually quiet and compact.





More and more alert architects and builders are gaining important design advantages—and making major construction savings, too—thanks to the matchless heating experience of Timken Silent Automatic. For some of the results of 25 years devoted to the development of fine heating equipment at realistic prices, look below.

COMPACT DESIGN —Close extention to every detail of design engineering has held required floor area to a minimum. All the finest modern features are combined in a complete line of ultra-compact units ideal for small homes.

QUIET OPERATION - The truly exceptional quietness of the famous Wall-Flame Burner-a sound level so low it can exacely be heard-happroved its value in hondreds of thousands of installations, especially next to living quarters.

EFFICIENT PERFORMANCE—For many years Timken Silent Automatic oil-fired equipment has produced fuel oil savings of 25% or more. Now modern design has also made Timken Silent Automatic gas-fired equipment outstanding for economy in its field.

COMPETITIVE PRICE - Timken Silent Automatic heating equipment is priced to compete with other makes of comparable quality - or even less than comparable quality. Best proof is its widespread installation in the most strictly budgeted housing projects.

FACTORY ASSEMBLY -Every feasible assembly operation, including all essential wiring and plumbing, is completed before each Timken Silent Automatic unit is shipped from the factory. Installation is greatly simplified and speeded by truly amitical construction.

Write today for full details and performance data!

93 MODELS OF FINE
HEATING EQUIPMENT
FOR OIL, GAS AND COAL



PLANTS AT: DETROIT AND JACKSON, MICH. . OSHKOSH, WIS. . UTICA, N.Y. . ASHTABULA AND KENTON, OHIO . NEW CASTLE, PA.

AUGUST, 1950



#### **NEW PRODUCTS**

(Continued from page 140)

GARAGE DOOR HARDWARE ASSSOCE

Halmes series 800 upward-acting garage door hardware fastons to side of door jumbs, requires



only eight inches of overhead clearance and operates doors up to seven feet high weighing up to 300 pounds. Easy balance adjustment with turn buckle speeds installation. Unit is delivered 95 per cent assembled. Holmes Manufacturing Co., Dept. AB, 211 N. Modison Ave., Lox Annales 4. Calif.

#### GYPSUM WALLBOARD

ARESOOS

Firestop Bestwall gypsum wall-board has certain incombustible ingredients added to gypsum care which after characteristics under heat. Single layer %-inch-thick, applied on both sides of load-beering wood stud partition, has fire-resistance rating of one hour. Single layer of V<sub>1</sub>-inch rhickness on similar construction has 45 minute rating. Soord and bundles carry Underwriters Laboratories seal. Board is made with recessed edges. High-quality tope and joint finisher is supplied by manufacturer. Sheets four feet wide, six to 12 feet long, are Winch and sch thick. Cortain leed Products Carp., Dept. AB, 120 E. Loncaster Ave., Ardmore, Po.

#### ELECTRIC HAND SAW

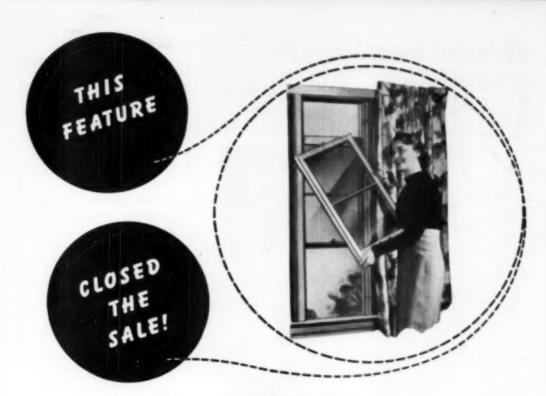
A885013

New Slaux electric hand sow has two-inch depth-cutting capacity with saw blade 61/4 inches in diameter. Unit has adjustable rip scale



drive, base adjustment, and cuts bevels 0 to 45 degrees at 1% inch depth. Fowered by 115 valt, 8 ampere motor, turns at 5300 r.p.m. free speed. Ball and raller bearings are used throughout Blower keeps cut free of sawdust. Saw switch is double pole, momentary safety type. Units come complete in case with blade and wrench. Albertson and Company Inc., Dept. All, Slove City 3, Iowa

AMERICAN BUILDER



## R.O.W Removable Wood Windows

The customer watching REMOVABLE demonstration feature of R • O • W Windows has made it the largest selling wood window in the world. Women—the real force in home buying—decide to BUY when they see an R • O • W wood sash REMOVED. "So much easier for washing both sides indoors—and painting, too", they say.



The exclusive spring cushion construction (cutaway view at left) not only makes the removable feature possible, it automatically adjusts to suit the weatherman. Gives in warm damp weatherexpands in cold dry weather. Wood sash travel in metal sash guides for smooth operation.

R - O - W WINDOWS Are How featured Exclusively in the Good American Home Program.

Tie-in with this program when it cames to your town.



R · O · W is waiting with tie-in merchandising pieces that sell the wonderful R · O · W removable feature that SELLS HOMES! For complete information—including sizes and prices from your nearby distributor—fill out and mail the coupon today. No obligation, of course.

R-O-W SALES		(50)
1333 ACADEMY . PERHOAL	1 30 MICHIGAN	12/12
PLEASE Send more in R.O.W-the window		The state of the s
Home		
Сопрату		Bulkler
Address		Design
City	I.ma.	Contracto

## Which Wall Facing Should You Sell?



COMPARE WITH ALL OTHERS . . .



#### CHECK THESE SALES FEATURES!

Features listed below have an important bearing on the amazing success dealers, contractors and architects are experiencing with HASTINGS alumitile, the exciting, modern, new wall facing. You, too, can enjoy increased profits from handling and recommending this well known line.

- 1. Alumitile is formed after it is pointed an unusual feature. Won't ship, crack, peel or corrude. Enamed fin-ish permanently bonded to ascraft aluminum.
- Over IS different shapes and sizes of tile. Count them and compare with the number affered to other makes. Incide and outside corners, bases, caps, stripes, triangles; matching eviteth plates.
- 8. Fourteen visil codors, avoilable in the of various patterns, for attractive lettering and amount designs. Dues the tith you are handling have thus "eff-destrating" feature? Can you do lettering with it, as you can with alumcide?
- 4. Fireprind, risotprind, waterprind. Hesiotant to common acids. No ansightly morter base to collect dist angreare. Easy to clean , , , sanitary . , , beautiful. Guaranteed long life.
- 5. Adapted to both incorine and exercise use, with a choice of finish. Service countless note for homes, institu-tions, consecretal buildings. Compare alumitife with other tile for flexibility.
- 6. Light in weight . . . 120 mg ft. weigh only 37 fbm. Easy to handle, lower shipping costs. Strength without bulk . . . requires less storage space. Easy to apply . . . ouve label buses.

#### VERSATILE TILE CUTTER



The 9t, leapid Heapitol of Banqor, Mados, writer of HASTINGS adventure, "We are happy to amounce what satisfaction and pleasant atmosphere it leaves the satisfaction and pleasant atmosphere it leaves and the satisfaction of the satis

WRITE TORATI

METAL TILE PRODUCTS, INC. HASTINGS, MICHIGAN USE HANDY COUPON D





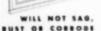
#### METAL THE PRODUCTS INC

Department 805, Hastings, Michigan

I should like to know more about your products I am e | Distributor, | Diseler, | Architect,

#### WEATHERPROOF - FIREPROOF - WINDPROOF







Designed and built of .040 gauge aluminum for lasting beauty and economy. Constructed of strong interlocking segments . . . rasy to fit to any window or door opening. If a streetive color combinations or solid colors. Offer year 'round profits. White Distributor, Dealer, Architect or Contractor.)

METAL TILE PRODUCTS, INC., Department 805A, Hastings, Michigan

#### **NEW PRODUCTS**

(Continued from page 142)

#### MASONRY WATERPROOFING ABS5024

Tutoral waterproofing for outer mosonry walls is a non-neithing mineral gum. Protects against cold climate disintegration and prevents absorption of greene, dirt, seet. Tulseal is easily applied with brush and may be colored. One gallon covers 100 square feet for recommended two coots. Also protects surface from domeness alkali and efforescence by preventing maisture from entering pores of concrete, brick, stone and wood. Tufcrete Company, Dept. All, Des

#### REEL AND PLUMB BOB

bracket attached to real for building bob which weighs eight ounces-and is made from heat-



treated steel chrome plated. Reels contain 100 fact of #18 yellow moson line. Spring broke prevents backlash when line is pulled too rapidly. Cover can be snopped off readily and chalk added. Codarberg Manufacturing Company, Inc., Dept. AB, 529 South Fourth St.,

#### DIBRIS DISPOSAL UNIT

A883019

Madel D 1 Republic "Dua-Way" gas disposal unit has two comportments-one for drying, one for burning debris. Since garbage and similar debris is dried first, burning action is complete

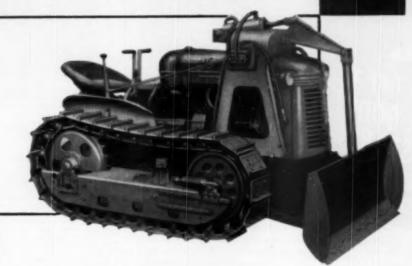


leaving only fine soh automatically swept into large ash drawer. All accessible autside surfaces are insulated with one inch of asbestas. Dimencom ore: height-36 inches; diameter-24 inches; A 1/2-inch gas connection and a five-inch five are required. Autogas Company, Dept. AB, 2153 W. Fullerton Ave., Chicago 47, III

(Continued on page 146)

More strength . . . More power . . . More everything

## ..in the NEW OLIVER



There's more of everything you want in a crawler tractor in the NEW Oliver Model "HG." This new little crawler tractor is "big" with performance-making features because it was field designed . . . designed to meet the specifications that users said they wanted.

#### The NEW OLIVER "HG" Has More Strength

To handle the extra load and strains of mounted equipment, the main frame, transmission case and drawbar bracket assembly have been materially strengthened. No loads are imposed on final drive spacer casting. Power take-off is heavier...stronger.

Front wheels have been increased 50% in

material thickness for longer life. Wheel flanges are on the outside of the track rails for better track alignment. New, heavier type track frame guide supports and buffer springs add strength to handle mounted equipment.

Final drive has been redesigned for greater physical strength and durability.

#### The NEW OLIVER "HG" Has More Power

The new "HG" engine gives you more drawbar horsepower . . . extra power to handle bigger loads . . . extra efficiency.

Check the new Oliver "HG" at your Oliver Industrial Distributor's now. It's the biggest little tractor you've ever seen.

#### THE OLIVER CORPORATION

Industrial Division: 19300 Euclid Avenue, Cleveland 17, Ohio

A complete line of industrial wheel and crawler tractors









#### It Costs No More to Have the Best!

Dollar for dollar, there isn't a door chime on the market that can touch an Edwards for decorative value, musical perfection and trouble-free service!

#### The New WEDGWOOD-

for example . . . sounds a soft, clear two-note melody for the front door . . . single note for rear entrance. Designed to grace "problem" walls with beauty. Crystallized ivory plastic with bright gilt ribbing. OVERALL SIZE: 44" high, 75," wide, 21,2" deep. (Also with silent center third tube.)

#### Edwards Company Inc., Norwalk, Conn.

In Canada: Edwards of Canada, Ltd.

### **NEW PRODUCTS**

(Continued from page 146):

#### AB85053

Savetile fire electe system, designed for homes. motels, apartments, cabins and similar baildings consists of 12 thermosters, two enclosed bells, one 110-rait a.c. transfermer (or 6-valt bottery), and 150 feet of plastic-coated, twisted electric



wire for an average six room home. Ten thermo stats are set at 135 degrees, two are set at 165 degrees for installation over heating units and in ettics. Bells may be located in any part of house or on exterior. Bell rings to warn of fire. F. Cecil Brown Co., Dept. A8, 1001 N. Vermant Ave., Los Angeles 27, Calif.

#### DRY-WALL PRIMER-SEALER

Figmented wall primer-sealer designed for interior walls of plaster, masorry or compasition wallboard seals porous surfaces in one application with easy brushing to provide firm adhesion and controlled penetration. Also permits use of deep-tone flat colors without cloudiness or 'shiners' over patched joints in dry wall construction. Primer-sealer can also be used as undercost in refinishing work or as primer cost for combination masonry and plaster and wood. Made in non-blued white, product can be tinted. Devoe and Raynolds, Inc., Dept. A8, 789 First Avenue, New York, N.Y.

#### PORTABLE ELECTRIC HEATER ABBSOAS

Fully automatic, heavy duty, partable electric heater with built-in thermastat, designated model PA, has only to be plugged in with dial set at temperature desired to get fan-circulated heat. A carrying handle is fastened to top. Silver



grey cobinet with chrome trim is constructed of heavy furniture steel, has smooth edges, rounded corners and rubber feet that will mar floors. Dimensions are 231/2 inches high, 17 inches wide and 61/2 inches deep. Each heater is supplied with six feet of cord with plug. This Electromode heater has parented Safety-grid lifetime heating element and automatic safety shut-off switch which prevents everheating. It has no exposed hot wires or calls. Unit operates on 240 volts and is available in 3000 and 4000 off capacities. Electromode Corp., Dept. AB, 45 Crouch Street, Rochester 3, N. Y.

(Continued on page 143)



#### OWERS MASONRY CUTTING *COSTS*

## **Housing Project**

Hugh D. Reich, Contractor Reports:

Clipper Masoury Saws have saved to 27% in material and labor! Our Model HD Clippers go wherever the masons go and rben had weather rone us inci the dustless Clippers so right along inside. Our mesons would no more be without a Clipper than a mason's trowel.



#### For Such a Saving -A MASONRY SAW MUST HAVE -

DOPERATION DOLANG COMES 3"WET OR DETY From ONE SPOT Clipper Saw the Operator performs svery cutting operation and makes every con adjustment.

An outstanding safety feature increases Operator comfort by eliminating spray when cutting wet A Clipper Patented feature. No need to re-move belt when cutting dry. No morntenance. Factory Seeled... An Exclusive Clipper development. Patented Water



Merely pull Knob and Cutting Head in free for fingertip setting to detired angle. Re-lease Knob and Head Locks in deD"Putented"
NUTOMATIC BLADE
PRESSURE
Mokes your
blodes lost longor Botaus
Lquakar Spring
Automatically Cushions blade pressure whether cutting HARD or SDFT materials. Outstanding for

One man easily adjusts Cutting 1988d to desired height—whether cutting 12" or 1" materials. Operator's hands morely guide — ALL weight is tepported by rear Connecting Bar.

#### FREE TRIAL

Ourring on FREE TRIAL . . . the only paramete of complete estisfaction. Try a on your job - any one of NINE MODELS.



#### MAIL THE COUPON NOW! CLIPPER MANUFACTURING COMPANY 1808 S. WARWICK . KANSAS CITY B. MISSOURI

MAME

ANUFACTURING CO. COMPANY

RANSAS CITY 9, MISSOURI

#### Sand TODAY information on the FREE Vital, other and com-plete Standard and prices on the 1950 Copper Massivy Sans. STREET. CITY. ZONE 61A18.....

#### **NEW PRODUCTS**

(Continued from page 145)

HOLLOW METAL DOORS

**AB25057** 

Hollow metal doors, frames and sliding class? doors are made in wide range of standard sizes and styles. Of welded steel construction throughove motal frames can be quickly set into



place. Shipped in a single piece, no assembly on site is required. Trimming and martising are ted. Doors will not worp, crack, or shrink. Treated with rest inhibiting Duridine (a coating which assures good point adhesion. They have a lasting, chip-resistant finish. Fabricated of 20-gauge steel, they furnish an extra margin of fire safety and security. Dieboid, Inc., Days. All, Conton, Ohio.

#### CASEMENT WINDOW UNIT WITH TRIM A885055

Combining complete outside and inside metal trim with Fenestro residence steel covement and hardware, new window unit provides simplified law-cost installation of one complete assembly. Cosement window, screen and storm such have Bandarized, prime coated frames and branze lacquered hardware and screen class. Trim is



galvanized and Barderized and consists of one piece sections coped and fitted for secure attachment. Same rough opening preparation is satisfactory for frome, brick veneer or stucco-frim motes ideal step for butting frome, brick and stucco on outside and plaster or dry wall on maids, froids is recessed to provide a pocket for blinds or roller shades. Head members top jamb members making right weather-tight connections. These sections are 18-pauge; sill is 16gauge, galvanized steel. Outside sill and inside stool project 1/4 inch beyond jamb members for appearance and weathering. Detroit Steel Fraducts Co., Dept. AB, 3101 Griffin Sr., Detroit 11, Mich.

(Continued on page 150)





PIONEER MAKER OF QUALITY
BUILDING MATERIALS



Built of steel, like a bridge ...steel con't shrink, ware, ing or rol.



All waited construction no bolls or scients to work



Gateannealing protects



Dependable hardwaresching to go wrong

FEWER SERVICE CALLS . . . Strand Doors are engineered for satisfactory operation . . . their rugged construction and built-in dependability mean satisfied owners . . . save "grief" for the builder.

STRONGER, MORE DURABLE... Strand All-Steel Doors are welded throughout. No bolts or screws to work loose. Steel can't shrink, warp, swell or rot. Galvannealed—heavily galvanized for protection, then annealed to hold finish coat of paint. Prime coat not needed.

SAVE INSTALLATION TIME... the one-piece door leaf eliminates field assembly of single doors. Hardware is packaged; door is quick and easy to install with simple tools.

LOWER FIRST COST... Large scale production in one plant—and standardization on 3 models—explain why this is America's biggest garage door value!

Strand Doors are available in Canopy and Receding (track) types for 8' x ?' opening; there's a Double Garage Door (track type only) for 16' x ?' opening unobstructed by center post. Order from your dealer, or mail coupon for information and dealer's name.

STRAND

STRAND GARAGE DOOR DRY Detroit Stoot Products Compan- Ideal A& 8, 2342 E. Grand Detroit 11, Michigan	
Pieces rish detailed description for 8" a 7" and 16" a 7" garage	of Strand off-steel Garage Boors se openings.
I em s 🗆 Bulder 🗈 Dealer	☐ Frespective Owner ☐ Other
None	
Address	
Car	State



and smooth as silk!





Gor Thin-Wall Installations

Those who know agree on one thing—vanishing doors must be noiseless and effortless to operate. And that is why more and more builders insist on R-W Silver Streak Vanishing Door Hangers and Track . . . it's got exectly what they want.

Specially designed for lightweight vanishing doors in thinwall pockets built in standard 2" at 4" studded partitions, Silver Streak is also for use on parallel residential wardrobe doors hi" or more in thickness. The hanger wheel, made of fine-weave cloth base bakelite, and equipped with high-finish ball bearings, gives longer wear and quiet super-smooth operation. The track is extra heavy section, hard composition extruded aluminum. Screws are easily inserted. Only rounded surfaces of the floor guide come in contact with the door groove, preventing scraping and assuring smoother quieter performance.

For maximum satisfaction and economy, the logical choice is R-W No. 1019 Silver Streak.



OVER TO TEAR

## Richards-Wilcox Mfg. Co.

A HANGER FOR ANY BOOK THAT SLIDES"

UDING DOOR HANDERS & TRAIN + PIRE DOORS & PATURES + GARAGE DOORS & EQUIPMEN HOUSTRIAL CONVEYORS & CRANES + SCHOOL WARDEDES & PARTITIONS ELEVATOR DOORS OFFERTHAND EQUIPMENT

#### **NEW PRODUCTS**

(Continued from page 148)

#### INTERMEDIATE WIRDOW AREADA

New type intermed she weight sheel window has these advantages: increased tight affectiveness, merbod economy in original cost, superior maintenance factors in terms of window weaking and



glass replacement. This Truscan window is custom-built in widths up to 10 feet maximum and in heights up to nine feet. Alternate glassing possibilities, depending on geographical leasting, climatic conditions and degree of exposure to direct our rays are: double insulating glass, head obserbing glass, non-glare glass, and either or both lever panels may be verted as desired. Truscon Steel Co., Advertising Deportment A6, Youngstown 1, Ohia

#### "CARRY-ALL" TRUCK BODIES ABBSOAT

Two new Morrison Carry-All models 8-750 (shown above) and 8.910 give greater capacity for heavier payloads and fit all standard  $\frac{1}{2}$ ,  $\frac{1}{2}$ and 1-ton new and used truck chassis. Heavy gauge steel construction and bridge-type underbody make possible lighter over-all weight. Model 8-750 has 75 inch body with 32 cubic feet compartment area, 25 square feet of floor area. Madel 8-910 is 91-5/16 inches long with 371/s cubic feet compartment area and over 301/s square feet floor area. Bodies measure 481/2 inches wide inside and have non-skill 16 gauge Roor, Standard optional parts include ladder racks careas tops, sliding metal roofs, shelves and side baxes. Morrison Steel Products, Inc., Dept. AB, Buffolo, N. Y.

#### CABINET PULLS AND KNOBS AB85036

Larger Enger clearances are affered by these pulls and knabs with high lustre finishes in chrome, bross, branze, dull bross, and dull



bronze. Pulls are 41% inchex long with threeinch spread between strew holes. Knobs are 1-1716 inches in over-old diameter, 15716 inches high. Hyer Handware Manufacturing Co., Division of International Research Carp., 2832 Ottymic 814d., Los Angoles 23, Call

#### WALL COVERING

#### AB85030

Wall-Ten fabric wall coverings, in addition to their decorative purposes, help prevent plaster stracking. There are 200 new patterns and colors in the 1950 line. Columbus Coated Fabrics Corparation, Columbus, Ohio

(Continued on page 152)

# A model to fit your needs...



DRILL PRESSES . BAND SAWS

RADIAL SAWS . JOINTERS

BELT AND DISC SURFACERS

LATHES . TABLE SAWS

JIG SAWS . TILTING ACTION SAWS



There's a Walker-Turner Machine—designed with industry's special needs in mind—for practically every metal and woodworking requirement.

In the woodworking shop Walker-Turner radial, tilting arbor and band saws, jointers, spindle shapers and lathes quickly repay their modest investment. Drill presses, metal cutting band saws, radial drills, cut-off machines and flexible shafts cut metal working costs.

If you are not taking advantage of Walker-Turner functional design in your plant call in your local Walker-Turner distributor. He'll be glad to show you what others are doing—and what you can do—to save on machine investment and operating cost. Write for new industrial catalog. Address Department AB8.

SOLD ONLY THROUGH AUTHORIZED DEALERS

Consult your plumber for the latest up-to-date



# **Fiat Shower Cabinets**

- Save labor, speed installation time
- Lower installed cost
- Beautiful, modern,
- Eye appeal to home buyers

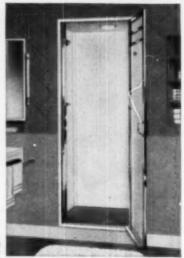
Unsurpassed for beauty and ultrasmart appearance, the new Fiat Built-in Cadet shower will add sales appeal to any home.

It saves considerably on shower installation cost by eliminating expensive tile work on the job. Builders report savings of \$40.00 to \$60.00 and more per unit. Check with your plumbing con-

Check with your plumbing contractor for details on Fiat Shower models. The Built-in Cadet shower is designed especially for medium and high grade bathrooms.

Use coupon for catalog of complete line of Fiat showers.

New Built-in Model 198 Codet bothroom shower



#### FIAT METAL MANUFACTURING CO.

THREE COMPLETE MANUFACTURING PLANTS (Chicago area plant) Franklin Park, III, Long Island City 1, N. Y. Les Angeles 33, Calif.

In Conedo: Plot showers are made by Paration and Manol Products, Ltd., Online, Onterior

Also I	send cotolog- wilders bathroo	of Fiat Sh m floor sh	owers, Race	giors and	Deers.	
Nome						
Campony.						-
Street						
City						
Zana	State					

#### **NEW PRODUCTS**

(Continued from page 150)

#### FOLDING BREAKFAST SET ABSS032

This space-sering on projects only 1% inches from the wall but opens to form a 30 by 36-inch table with two seets to accommodes four adults. Table top and seets are made of



Ye-inch fir plywood. Top is covered with Formics in choics of colors. Chrome trim is used on edges of tobic and seets. Unit clips to wolf and may be removed for redecorating. Well space required in 40 inches long and 40 ½ inches high. Nickel plotted seed logs are self-lacking. Normondy Manufacturing Co., 504 Ninth Street, S. W. Ceder Ragnés, Jowa

#### FLUID DRIVE FOR TRUCKS ABBSONS

Dadge is now offering gyral fluid drive an Job-Bated trucks with nominal ratings of  $\frac{1}{1}$ ,  $\frac{1}{4}$ , and 1-ton. The having of the gyral fluid drive



unit (shown above) is mounted between the engine and transmission. It contains clutch and fluid drive cuppling, Innide, two fan-like members face each other in an air-fight housing partly filled with all. Oil acts as curbine on power train. By eliminating rigid mechanical connection, fluid drive pravides smooth starting, safe ride for tructloads and less gear shifting. Dadge Division, Chrysler Corp., Dept. AB, Dehrois 31, Mich.

#### FRAMELESS TENSION SCREEN ABBSOSB

Designed for double lung windows, new tension screen can be quickly installed without tedious



fitting. Screens are easily attached on upper blind stop with sliding fastener and drawn hast of sill with bension screw. Tension is maintained on sides by five-attand selvage edge, and free-floating sill ber at battom corrects out-of-square sills. Unit is rust- and stain-resistant, easy to store and neat appearing. Keystone Wire Cloth Co., Depr. AB. Homorer, Po.

(Continued on page 154)

For Light Construction work

BIG LOAD CAPACITY



## America's No.1 Economy Pickup



10 WAYS BETTER THAN THE 4 OTHER LEADING MAKES

· You get so many extra values at no extra cost in the Ford F-1 Pickup. There isn't another full-size Pickup that carries a lower list price than the 6-cylinder Ford. And it's 10 ways better than the 4 other leading makes,

- I. Lowest loading height (24 inches).
  2. Up to 15% greater frame section
- 3. Up to 18% more brake lining area. 4. 10' Gyro-Grip clutch with needle bearing release levers.
- 5. Lighter curb weight—enly 3,220 lbs.
- 6. Higher net terque.
- 7. Higher compression ratio. 8. Oil filter (standard).
- 9. One-quart oil both air cleaner (standard).
- 10. "Million-dellar" Cab for extra driver comfort, recominess and safety.

Truck users are switching to Ford Trucks for extra value. That's why Ford Trucks are currently making the industry's biggest sales gains.

Switch to Ford-America's No. 1 Truck Value. Over 175 models to fit your job-95-h.p. Pickups to 145h.p. Big Jobs. Ford's the only truck in America that gives you a choice of 6-cylinder or V-8 power.

For bigger, heavier loads, shoose the 8-ft. long, 54-in. wide Express body, available on ford Series F-2 rated up to 5,700 lbs. G.V.W., and Series F-3 rated up to 6,800 lbs., 122-in. wheelbase.

MAIL THIS COUPON TOBAY! PORS SWILLIAM OF PORS MOTOR COMPANY

Ford Trucking Costs Less Because-

# FORD TRUC

life insurance experts prove Ford Trucks last langer!

3369 Schooler Rd., Southern, Mich. Send me without charge or obligation, detail specifications on Ford Trucks for 1940. HEAVY BUTT MODELS [] LIBRA MODELS SETEA HEAVY DUTY MODELS [7] (Plous print plaints) Address

Zone State

AUGUST, 1950

153

### it pays to FAN-PLAN with EMERSON-ELECTRIC Kitchen Ventilators



Woll-type Vanticto

Colling-type Vanifolis

EMERSON ELECTRIC

#### **NEW PRODUCTS**

(Continued from page 152)

#### PRESSURE COMMECTORS A

ARESOS9

Five log madels, comprising "Wide Bange" line at medium-priced pressure connectors for use with copper, aluminum at seel were in sizes from 14 AWG to 500 MCM are now available. Assemblies are complete eliminating loose weathers or pains. To provide strength for per pains. To provide strength for per

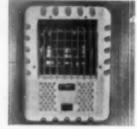


manent maximum pressure, fightening bolt, guide nut and contact pad ore mode of steel. Peadine conductivity is essured by lug body of hard-drawn electrolytic copper which also resists corresion crucking. Entire unit is calenium plated for corresion and axidizing protection. Each connector handles a wide range all wire and cable uses. The five smaller sizes, NE 25, 60 and 100 are installed with strew driver larger sizes. NE 200 and 400, with a wrench. All sizes are made with minimum over-all stimentions to expedite installation. National Electric Products Corp., Dept. AB, Chamber of Commerce Building, Pitzburgh 19, Pa.

#### SLECTRIC HEATER

AB85043

This Titan electrical wall heater provides both infra-red and fan-forced heat even under low voltage canditions. The 1600 watt, 110-170 out 60 cycle, A.C. model 600 series shown above



is finished in white baked enomel or chrome. Unit is as easy to install as an autiet box. It is listed under the Re-Examination Service of Underwriters Laboratories, Inc. The front panel messures 10 by 14 inches. The wall box is 3 by 9 by 12% inches. Heater is ideal to baths and similar rooms. Trian Manufacturing Campany, Inc., & Mella 2, N. Y.

#### CLOCK-DOOR CHIME

AB85035

A kitchen clock-door chime is available. Can be installed over a clock hanger auties. Line contains a self-surring electric clock with a silent, sealed-in-oil mechanism and a high-valume responder type door chime that sounds tree notes for front door, one for reac Clock face measures fire inches square. Overall size is 9 by 81% by 31% inches. Liberty Bell Manufacturing Company, Minerra, Ohio.

#### GAS WATER HEATER

A885044

The White automatic gas water hoater is equipped with Ribbertson-Grayson thermustatic controls for accurate temperature settings. Two burning units are available for use with either LF, natural and manufactured gas or with natural and manufactured gases only. Hoat is (Continued in Page 156)

## It's a carpenter's pick-up

and a family sedan!

## The 1951 FRAZER

2-cars-in-1 Vagabond





"Better than a panel truck."

One look consinced Carpenter Earl Smith, of Chicago, how useful a car like this could be.

Not only does be haul all his carpenter's equipment in the spacious cargo hold, but in his own words his our "is more efficient and economical then a panel track."

In a jiffy, Mr. Smith converts his car into a sedan for family use. "I actually got two cars for the price of one," he ways, adding that "this is by far the most useful car a carpenter can own I" For work, it's a roomy pick-up vehicle...ideal for hauling tools, lumber and other equipment...everything a carpenter needs on the job. After hours, it's a six-passenger sedan...with all the luxurious riding comfort every family wants.

That's why carpenters say the 2-cars-in-1 Frazer Vagabond is the handiest car they could own!

With the back of the rear seat forming part of the level deck, the Vagabond provides a huge cargo hold of 130 cubic feet. Easy to load and unload, easy to handle, it gives you the convenience of a pick-up van...the comfort and prestige of a stylish sedan.

And in just ten seconds it converts into a handsome family car...

powered by the rugged new 115 h.p. Supersonic High-Torque
Engine... brimming over with the handcrafted quality that
marks all Frazer models.

See your Kaiser-Frazer dealer now. See why the ingenious Frazer Vagabond is the most useful car you can own!

The Pride of Willow Run!

Kaiser-Frazer Sales Corp., Rm.	205 Q.	Administration	Bldg.	Fillon	Run.	Mich.
Gentlemen: Please send me com	plete in	formation abou	t the ne	w 31 F	raises 1	Vagalond
and tell me when I can see one.						

RITE-LOCK FOR SLIDING DOORS



3 ADJUSTABLE WIDTHS FIT 1%"-2" DOORS

REVERSIBLE



Here is the most versatife lock for every sliding door application. It is adaptable to any requirement as to hand, security and finish ... while the three standard sizes adjust to fit any door thickness, 11s" to 2"

The thumb button, emergency or blank discs or cylinder can be interchanged from side to side on the job. This means that dealers can supply any combination required by merely stocking a few representative discs and cylinders in popular finishes.

Rite-Lock is easily installed by a simple cut-out without any mortising. The escutcheon measures 4½" x 2½." All exterior parts solid brass. Write us on your letterhead for the new Adams-Rite Catalog 49.

#### CYLINDER DEADLOCK FOR SLIDING DOORS

This cylinder deadlack agercies by cylinder from one or both sides. Fits all standard cylinders with adapter cans furnished tiperity when using Yole or Sargent cylinder). Salid branze face, strike and both. Heat fracted aluminum effoy cane. The your own cylinders and trim. Also used as jimmy-proof lock.





#### **NEW PRODUCTS**

(Continued from page 154)

kept in the heart of the tank with a spirel. New boffle to assure meainum heat utilization.

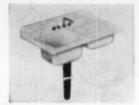


Unit welding permits uniform expansion or contraction of tank walls. White enound frushes are booked on. White Fibergles insulation keeps the water hat Model 30 shows has 30 gallon capacity. White fraducts Carporation, Middleville. Mich.

#### SINK AND TRAY COMBINATION

A885039

Especially designed for homes and apartments where a separate laundry connect be provided, this new unit consists of a sink bowl eight inches deep and a tray bowl 12 inches deep.



The percetain on sink combination, farmed from 14 gauge enomaling steel, has a removable drainboard that slides smoothly from sink to tray and a favest ledge that accommodates a host and sold mixing favest and a disappearing spray hase. Can be installed on any standard sink cabinet or with teg. Over-oll size is 48 by 25 inches. Altiance Ware, Inc., Alliance, Ohio.

#### HARDWARE DISPLAY

A885031

Amerock's new convention display, being shown at leading hardware and lumber dealer conventions during 1950, features matched cabinet hardware in chromium and caler as



wall as brass hems, branze items, and the new Colonial Heart pattern in weathered aid block iron finah. Displayed Winthe soft lock has both ramplete lack and sealing action. A matter driven door demonstrates smooth, positive action of rubber roller spring cotch with shock obserber action. American Cabinet Hordware Corp., 416 S. Main Sheet, Rockford, III.

(Continued on page 158)

#### metal weather strip NAILS



Preferred everywhere by the trade for many years. Made with barbed shanks and suitably plated for maximum resistance to elements. Available in one, two or five pound packages and in bulk. Immediate delivery.

#### JOHN HASSALL, INC.

182 Clay Street Brooklyn 22, N. Y. Established 1850 Hassal

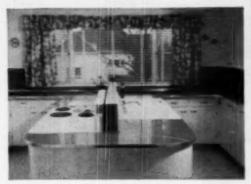




America's greatest saw barquint Cuts lumber to the property of their briggs & Stretten 3½ H.P. gas engine. Saw cuts fine hining. transite pipes, steel transite pipes, at each cost. Copper & aluminum. etc. Does work of \$1.000 worth of saw equipmont. Sharpena teels, fomeus make, brand to the company. Seed for literature.

ENNIS SUPPLY CO.

#### Divided Work Centers Save Steps in Kitchen

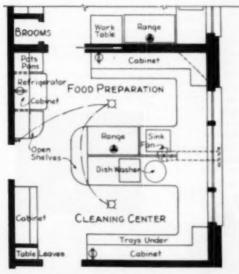


CENTER "laland" is formed by separation of centers

A KITCHEN divided into two clearly-defined centers food preparation and cleaning—and so arranged that the extremities of the center being used are only two steps apart is proving a valuable step-saver in the home of Mr. and Mrs, H. E. Olson of Seattle.

Over-all size of the room is 13-6x14 feet. Running water is available on both sides of the center peninsula which divides the two centers. The distance between the range and counter on the food preparation side or the dishwasher and counter on the opposite side is only about 42 inches, almost entirely eliminating steps, yet providing ample work

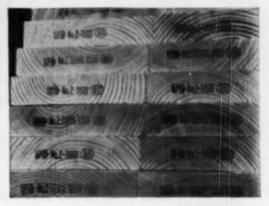
The home was designed by Stuart and Durham, architects, and built by Nels Heslein and Son. The kitchen cabinets were constructed by Elmer and Moody under the direction of Mrs. Olson, who also worked with the architect in planning the kitchen. Olson is associated with the Elliot Bay Lumber Co.



MANY conveniences are contained in 169 square feet area

AUGUST, 1950

## Yes, you can get lumber like this!



Just ask your lumber dealer for

# CROSSETT LUMBER PRODUCTS

V They're well manufactured
V They're seasoned right
V They're big mill quality
V They're dependable
NOW AVAILABLE TO YOU IN:



#### ARKANSAS SOFT PINE

Satin-like Interior Trim Soft Textured Sheathing Nail-bolding Dimension



ROYAL OAK FLOORING

See them at your dealer's

CROSSETT LUMBER CO. GROSSETT

157



**NEW PRODUCTS** 

(Continued from page 156)

Self-contained birches unit furnishes all equip ment for kitchen work in one pockage. Two



sizes are available: a seven fast, six inch unit and a six foot unit. Smaller unit contains refrigerator, sink, range, and cabinets. Large unit holds refrigerator, sink, range, washing ma-chine, and air conditioner. Earle Kitchen Unit Company, 116 E. 63rd Street, New York, N. Y.

#### PLECTRIC RANGE

A885033

This defuse model Stor electric range, model ED-494, is being introduced with two other electric ranges this month. The model shown has

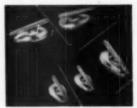


four, seven-heat, double element surface units. full length top lamp, electric clack with automatic times which controls the oven or electric appliance outlet. Range has a full-size over with temperature control, warmer drawer, and two service drawers. Automotic door stop facilitotes brailing, Detroit Vapor Stove Company,

#### CABINET HARDWARE

ARR 5034

Streamolife rocket-shaped drawer and cabi set door pulls are fabricated of solid die-cast metal, finished in chrome plate, plated finishes



or in synthetic metal coatings to harmonize with wood colors. Units are made in two companion models, identical in contour but differing in size. Model P 1050 measures two inches over oll length; model P-1051 is three inches long. Burkhard Manufacturing Company, 7356 Ten Mile Road, Centerine, Mich. (Continued on page 160)

septic tank disposal and drainage systems. For the full story of how Bermico Sewer Pipe

RERMICO

SEWER PIPE

can cut costs, boost profits, streamline

your effort, write to: Dept. A-18, Brown Company, 500 Fifth Ave., N. Y.

ROOT-PROOF

JOINTS



... of course,

# Makes Space Work Overtime! ONLY Westinghouse Rancho HAS IT

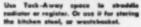
The new Westinghouse Rancho Range accommodates a roll-out table. In effect, you are adding 7½ square feet of table-top and shelf-area storage in addition to big range cooking capacity... without construction cost.

This combination offers house prospects flexibility of use. The table can be moved anywhere, can be used as a teacart. They'll like the extra-large True-Temp Oven, the four, fast Surface Units, too.

You'll like the price! It's less than any other range of the same size. You'll also like its zero Underwriters' rating. That means it can be butted against surfaces of any kind to gain space.

Phone your Westinghouse Discributor for full particulars on the Rancho . . . and roll-out table.

WESTINGHOUSE ELECTRIC CORPORATION
Appliance Division Mansfield, Ohio





Extro-large True-Temp Oven gives balanced Heat for bailing, No-Druft Heat to receiving, redient Glow-Heat for perfect brailing.



Four fast "COROX" Surface Units, of with five controlled beats,

## YOU CAN BE SURE .. IF IT'S Westinghouse



# SOLD OUT IN 6 WEEKS!



Like the way this "Modernfold" folding wall either creates an extra hedroom or expands the living room? Schleicher's customers did. 50% insisted on this obtained feature.

#### "Modernfold" Doors Big Factor in Success!

If you want to know how to sell houses fast ... listen to what Schleicher's Forsythe Corp., Gary, Ind., builders, say.

6 weeks after our Model Home Opening, we had sold out our entire subdivision of 125 homes under the \$10,000 class. "Modersfold" doors throughout the house were a vital factor in this success. Buyers were enthusiastic about the beauty and space-saving ability of these accordiou-type doors. . the flexibility offered by the "Modernfold" partition.

#### **Actually Saves Builders Money!**

And "Modernfold" doors can actually cost no more than conventional doors because they eliminate trim, painting, hardware. Schleicher's Forsythe Corp. adds the extra thought that "Modernfold" doors saved them additional sales expense because houses sold faster. No wonder builders specify more and more "Modernfold" doors. For full details, look up our installing distributor in your classified telephone book under "doors"... or mail coupon.

#### Sold and Serviced Nationally





Notice in plan how "Modernfold" doors are used in practically every room to save space —space which would be wasted with swinging doors.

Plans for builders are available by contacting Schleicher's Forsythe Corp., Gary, Indiana.



HEW CASTLE PRODUCTS, P.O. BOX 833

THE R. P. LEWIS CO., LANSING.	-			
Gentlemen: Please send	me full di	nails on '	Moderniole	l' doors.
Name				
Address	******			
( M)		50	do	
In Canada:	Moderni	old Dans	Company	of Canada

#### **NEW PRODUCTS**

(Continued from page 158)

#### AUTOMATIC CLOTHES DRYER ABBSOAD

In this unit, clothes are ultra-violet treated and dried or 190 degrees Fahrenheit to protect them against contamination. Heating units may be either electrical or gas. Dyer has capacity



to dry six pounds of clothes in 15 to 25 minutes ready for ironing. For bone dry clothes, 30 to 15 monutes are required. Finish is white, high-livitar balked enamed with red plastic trim and chrome. Over all timessions are height— 39 inches, width—31 inches, depth—27 V<sub>2</sub> inches. Hamilton Manufacturing Company, Two Rivers, Wis.

#### HORIZONTAL GAS FURNACE ABBSOSS

Especially designed for installations where space is at premium, new horizontal gas furnace has an 80,000 S.Y.U. input. Larger units are in pro-



duction. Series 15 has over-all dimensions of 50 by 16½ by 16½, inches, making a sadapted for attic, under-floor over-head supersion in stallations. Feature is conveniently located sidemounted control bas containing entire group of regulating and control units. Sequela Manufacturing Co., Dept. AB, 1000F Britton Ave., Son Carlos, Calif.

#### RANGE VENTILATOR

A885037

This kitchen range ventiletar consists of a canapy-type bood to go over a kitchen range.

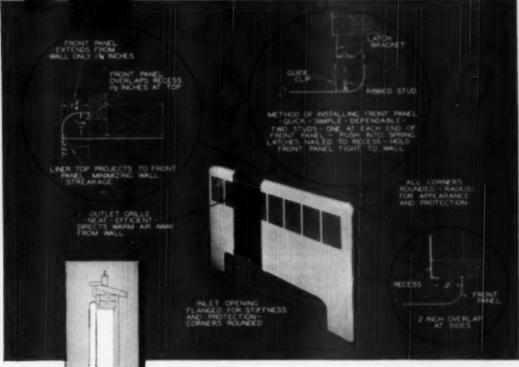


it has a built-in fair and light unit. Model shown is 42 inches wide with a six-inch exhaust pipe. Other sizes are available. Bar-Brook Manufacturing Co., Inc., 6123 Linwood Are., Shraveport, La.

(Continued on page 162)

# 8

# TYPE R CONVECTORS DESIGNED Exclusively FOR RECESSED INSTALLATION



type s wall hung



Designed for commercial, institutional, and industrial installations. Send for Bulletin 500. Appearance plus the space-saving feature of recessed convectors are important homeowner appeals. However, if ordinary cabinet type convectors are recessed, there is a good possibility that sooner or later, the wall plaster around the unit will crack and mar an otherwise satisfactory job.

Exclusively designed for recessed installation, Tuttle & Bailey Type R Convectors solve this problem. Constructed with a front panel that extends beyond edges of the recess, sufficient overlap is provided to cover the wall plaster line . . . and your customer is sure of a permanently neat, trim installation.

ASK YOUR JOBBER

TUTTLE BAILEY inc

47830

AUGUST, 1950



# BUILDING CONTRACTS!

Want more profitable building contracts? Take the straight line to the construction market — use DODGE REPORTS. Don't waste time on dead-end leads where jobs are let before you have a chance to bid! Use DODGE REPORTS ... you can be first, in the right place — at the right time; you know who to see and when to see them.

Right in your own business area every day, a definite number of real prospects get plans under way for

#### **New Construction!**

You can follow up these profitable job opportunities with DODGE REPORTS. You are told exactly where each job is located — what type of materials will be needed — who is involved in each project (name of owner, architect, engineer, contractor) — when the plans will be ready for figuring and when bids must be submitted.

This is information TO HELP YOU GET PROFITABLE BUSINESS. It saves you time and "leg work." It enables you to base your estimates upon known facts... to time your bidding... to close deals at the proper moment for effective results.

Let us show you, without obligation, how DODGE REPORTS can mean your first step to profitable building contracts.

# Straight Line WES—I want to know about the profitable opportunities in New Construction. Without obligation, show me how I can use DOOGE REPORTS in my business. Name Profitable Business F. W. DODGE CORPORATION Construction News Division 119 West 60th Record, New York 18, N.Y. CORPORATION

#### **NEW PRODUCTS**

(Continued from page 160)

#### HORIZONTAL AIR CONDITIONER

A885044 Climatral type 155 gas-fired harizontal einter

air conditioner is designed for affic or crowl space installations with perimeter, zone control, radiant or conventional forced warm air sys-



tems in basementiess or ranch style homes. It is available in 46,000 or 90,000 8.T.U. input appointes. A similar new Climatria unit, the type 151, a a blower unit heater available is feur sizes: 40,000, 90,000, 120,000 and 150,000 B.T.U. input opposities. L. J. Mueller Furnace Co., Dept. AB. 2005 W. Okiahama Ava., Milleaukes IS, Wis.

#### EJECTOR PUMP

A883041

New type horizontal ejector pump is automatically self-priming with water at 25 feet. Pump was designed to give maximum capacity at a depth of 20 feet for which this unit is especially recommended. Has no unnecessory



openings or narrow passages and requires no special adjustments to put into service. It has but one moving part and no teothers, befits or valres to replace. Impellar and built-in jet notical and venturi are made of brance. A self-aligning rolary seal on the motor shall prevents water escape and eliminates packing glands. Comes equipped with eight-foot cord and plug mired to switch and motor ready to plug in. Fairbanks, Morse & Ca., Dept. AB, 600 South Michigan Aw., Chicago 5, IIII.

#### SELF-SEALING REFRIGERATOR DOOR

Two-door combination refrigerator and home freezer has self-sealing magnetic doors. One-inch Alnico magnets liming plastic door goskets pull doors shut eliminating latch mechanism, a camman source of service problems. This new model also features an unusual ide coube tray which permits the user to remove one cube at a time—or the whole tray full, a foot-pedal door opener, and imprived fruit and vegetable drawers. If the householder a arms are loaded, she can open the bresh food comportment of (Combinish of phage 164)



## KENTILE FLOORS suit every type of store

Unlimited variety of design effects with this low-cost, long-wearing flooring.

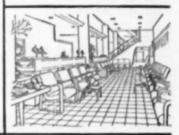
Kentile's 23 colors . . . plus feature strips and special inserts . . . give wide latitude for design effects. This floor blends with any type of interior . . . and lends itself particularly well to open front store design.

Yet for all its decorative appeal, Kentile is outstandingly low priced and famous for resistance to wear. Despite constant foot traffic Kentile keeps the fresh attractive appearance that builds business for the retailer. Cleaning is a simple matter with this smooth-surfaced, dirt-resistant asphalt tile. Colors go through the material—can't wear off.

Kentile can be installed on any smooth firm underfloor no expensive sub-base necessary. You can specify it for use on concrete below grade or on sound double wood floors with top tongue boards not over 3' wide.

KENTILE SIZES FOR EVERY INTERIOR. Kentile is made in  $9' \times 9'$  aquarea. Also in special sizes  $-3' \times 3''$ ,  $3' \times 6''$ ,  $4' \times 4''$ ,  $4 \cdot 16'' \times 4 \cdot 16''$ ,  $4 \cdot 16'' \times 9''$  and diagonal tile of all sizes. Standard Kentile is  $\frac{1}{2}$ 4 inch thick with  $\frac{1}{2}$ 6 inch also available.





DAVID E. KENNEDY, INC., 58 Second Avenue, Brocklyn 15, N. Y. 330 Fifth Ave., New York 1, M. Y. \* 705 Architects Bidg., 17th and Sensom St., Philodelphia, Pa. \* 1211 N.S.C. Bidg., Cleveland 14, Ohio \* 225 Moore St., S.E., Affanta 2, Ge. \* Kansas City Marchandise Moort Inc., 2701-5 Grand Ave., Kansas City 8, Ma. \* 1440 11th 51, Denver 4, Colo. \* 4522 South Kolin Ave., Chicago 32, Ill. \* 1113 Vine 5t., Mouston 1, Tesas \* 4501 Senta Fe Ave., Los Angeles 58, Colil. \* 95 Market St., Oakland, Colif. \* 452 Statler Bidg., Boston 14, Mass.



The Permanently Beautifu Asphalt Tile





#### Ideal for first floor installation in small homes

#### IT'S QUIET-

The ONLY quiet self lighting oil furnaces are made by H. C. Little. There are no moving parts in the H. C. Little oil burner - no motors, no blowers, no hum, no roar A but feature in selling small homes!

#### COMPACT DESIGN-

Only 22"x22"x60" high. Small enough to fit easily in a small utility room,

#### SENDS HEAT TO EVERY ROOM

through ducts. 78,500 BTU heat OUTPUT. Another selling feature!

#### **BURNS LOW COST CATALYTIC OIL**

Today's best bargain in oil for domestic heating.

Out all the facts and law prices. For your dealer's name, WRITE DEPT. A-8



SAN BAFASL CALS

#### **NEW PRODUCTS**

(Continued from page 162)

this refrigerator by stepping lightly on it pedal extending three inches from the bicliplate of the base of the unit. Fruit and vagatable drawers are mounted on a truycle frame equipped with rubber-tired whoels which rall along grooves to keep drawer from slipping and assuring quiete operation. New refrigurener is everlable in both eight and ren cubic fast mades. General Elec-Iric Company, Dapt. AB, Bridgapan 2, Conn.

#### HOUSE HUMBERS

nous plastic numerals are made in red Buerescent, yold and silver finishes and block Lucite Numbers, 41/2 inches high, will glow



in the dark for several hours after being satu ruted with Light (either artificial or natural senlight). Each immeral is packaged separately in cellophone enupper, complete with crews for mounting. Gits Molding Corp., Dept. A8, 4600 West Huran Street, Chicago 44, III.

#### TESTING MACHINE

A885043

With country for handling blocks in to 12 by 16 miches the Black Buster has flex billty to meet requirements of most cement products plunts. It is constructed of heav, welded steel



dimensions are. 54 inches high, 15 inches deep, 29 inches wide. Shipping weight: 1250 pounds. A large easy-to-read dial registers the compressive strength in tors. Attached charts convert dial reading into pounds per square inch. W. E Dunn Manufacturing Co., Dept. A8, SS1 W. 26th Street, Holland, Mich. (Continued in page 166)

## a shopping huilders.



A central market place for the builder - where he can fill all his structural steel needs - that's International Steel, International will furnish you with steel, from single building itom; - steel trusses, columns, girdors, jolids, windows, stairs, doors --- to complete off-steel buildings . . . whatever your jobs require.

International's staff of expert designers, estimators, and engineers is always ready to help you with any building problem, Write teday.



#### INTERNATIONAL STEEL CO.

1804 EDGAR ST. . EVANSVILLE 7, IND.





What does this mean? Just this—it means the heghest quality, because only PERMUM STEEL—DEEP DRAWING STOCK—and be used for die stamping! Low quality steel, can be shared, brashed and wilded—but it can't be attempted! MOR-SUN die stamped! Workers are botter—because they're made of better because they're made of better. s they're made of better Specify MOR-SUN-take a friend for life!

furnace parts ?

MOR-SUN DIE-STAMPED FURNACES FOR GAS and Oil



MORRISON STEEL PRODUCTS, INC BBFFALS 1 M T

#### Private Firms Launch 1,000-Unit Military Housing Development

A 1,000-unit military bousing project is currently being built by private firms at one of the nation's largest Army installations, Fort Bragg, N.C., under the provisions of the 1949 Military Housing Act.

The \$10,000,000 Fort Bragg development will consist of 100 six-family garden type apartments, 400 single-family two-bedroom houses and a shopping center, all on a 160-acre tract. Prefabricated house parts are being supplied by American Houses, Inc., New York City, from its Lumberton, N.C., plant.



SIX-FAMILY gardon-type apartment being built at Fort Bragg. N. C. Profabricated units are supplied by American Houses. Inc.

The project will be built and managed by W. H. Weaver of the Weaver Construction Co., Greensboro, N.C., and C. B. McNairy and Raymond Bryan of the T. A. Loving Construction Co., Goldsboro, N.C. J. C. Taylor, president of American Houses, Inc., said that the first units will be ready for occupancy in August, 1950, with completion of the whole project scheduled in from 12 to 18 months.

#### Structural Corrugated Glass . . .

(Continued from page 42)

wood fillers, gypsum casting plaster, putty or glazing compound. Wood mouldings should be primed before setting, and material used to fill the contours should be colored to match the finish trim.

(d) Setting Without Moulding: This glass is sometimes set with pegs or blocks shaped to fit one or more corrugations. Installations of this type require ground edges. Care must be used to fit the pegs to insure a firm setting; it is often necessary to adjust the opening to fit the glass by thuse of fillets or furring.

EXTERIOR SETTING PRACTICE: (a) Butl foints: All butt joints, including miter joints, in exterior installations should be made waterproof by using a filler such as show case cement.

(b) Division Bars: Weatherproof tape should be used between the division hars and the glass, both inside and outside.

(c) Mouldings: The glass should be bedded in glazing or caulking compound, colored to match the moulding, at bead, sill and side jambs. Plaster filling should not be used for exterior installations.

Data and drawings by coursesy Mississippi Glass Company

NATIONAL HOME WEEK September 10 to 17



# COMPARE!

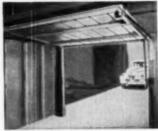
- SEE FOR YOURSELF WHY
- GLIDE-AWAY
- \_ IS THE OUTSTANDING
- OVERHEAD-TYPE DOOR



- LIFETIME PROTECTED AGAINST RUST AND CORRO-SION because Glide-Away Doors are made of paint-lock steel which is Bonderized and zinc coated . . . and for EXTRA protection they are covered with a prime coat of infra-red-baked paint at the factory.
- EASIER TO INSTALL because the one-piece jamb strip and weather seal is pre-assembled.
- CABLE-CONTROLLED DOUBLE DOOR LOCK permits fingerup operation from the garage interior without disturbing outside lock.
- ONLY 1/4" OF HEADROOM is required.
- GREATER RIGIDITY because of the heavier gauge inside structure and double hat channel section construction.

STEEL DOOR DIVISION
STAMPING PRODUCTS
AND MFG. CO.

14001 INTERVALE . DETROIT 27, MICH.



Glide-Away space-saver, jamb-type bardware does not sacrifice interior space. Arms are welded steel construction. Again we say: "COMPARE BEFORE YOU BUY".

Street Choose	reducts and Mitg. Co. Division rate, Detroit 27, Mists.
Please sens Garage Dec	detailed information on "Olida-Away"
NAME	
ADDRESS	
CITY	STATE

#### **NEW PRODUCTS**

(Continued from page 164)

#### HORIZONTAL SLIDING WINDOW ARESONE

Porticularly adaptable to ranch-type and modern type houses, this window can be used on a single apening unit set high in wall, in multiple expenings or in combination with fixed lights.



Alwintie sliding windows are manufactured in one standard size: 45-% by 25-% inches to fit standard, multiple openings. Both such are easily removed for cleaning. Window has stainless steel fack and continuous pi, if on both such aspecially designed screens and starm such are available. Units ore shipped with from assembled and such knocked down. General Britist Carp., Dept. AB, Stewart Ave., Garden City, 14-Y.

#### PUSH-PULL PLATE

#### ABES050

This device is a gently curved plate 5%, inches wide and 9 inches long that mounts in place of the flat push plate to enable one to "push" or



"pull" a swinging door. Made ariginally in decorative laminated plastic, it is now also available in clear plastic with sanded texture and in brass and aluminum brushed fireda Kablick, Dept. AB, 347 Clay Street, San Francisco 11, Calif.

#### SHORE CLAMPS

#### AB85051

New share clamps cut sharing costs in half. Clamps may be used with 4 by 4 s or paired 2



by 4's. These sharing clamps will support 6000 pounds safety and can be used for any temporary structure such as ramps, scaffolding. Farmers Tool and Supply Co., Dept. 051-A8, 4615 Weshington 51. Derver 16, Calo.

(Continued on page 168)

# Monotony In Project Housing Poses Problem For Architects And Builders

### STAINED SHINGLES & SHAKES GIVE PROJECT HOMES VARIETY IN COLOR, STYLE, DESIGN...

The application of Stained Shingles alternated with Stained Shake walls can be specified so that no two adjacent homes of a project are alike in color, weather exposure or surface texture. Variety of Stained Shingle roof colors adds further distinction to each home. The table below recommends a typical set of roof and wall modifications out of hundreds of practical combinations.

VARIATIONS are virtually limitiess, as wells may be applied at any decired exposure between 614" and 10". Application details are excludes in Sweet's File 85 7s.

EDMONECAL because both Shingles and Shakes are available in a wide variety of colors and pre-staining greatly reduces used of color application after construction.

EASY APPLICATION is important in project construction. For exposuros greater than 8°, double-coursing application is simple and acomomical Continues use of Starred Shakes over inexpensive grade of cadar shington as shown below. Details in Sweet's File 80-7a.

#### 1

ROOF: Shingles [Green]

WALLS: Shakes [16"]

Exposure [12"] Color [Green] 2

ROOF: Shingles [Red]

WALLS: Shingles [16"]

Exposure [8"]

Color [White]

2

ROOF: Shingles [Oiled]

WALLS: Shakes [16"]

Exposure [12"]

Color [Brown]

#### 4

#00F: Shingles (Brown)

WALLS: Shingles [18"]

Exposure [14"]

Color [Tan]

5

ROOF: Shingles [Red]

WALLS: Shakes [24"]

Expesure [18"]

Color [White]

6

ROOF: Shingles [Blue]

WALLS: Shingles [24"]

Exposure 18" Color [Gray]





STAINED SHINGLE & SHAKE ASSOCIATION

#35 CENTRAL BUILDING, SEATTLE 4, WASHINGTON

# SAFWAY Presents to the building industry...

# THE NEW LOW-GOST SAFWAY "4 BY 4" Steel SCAFFOLDING

FOR LIGHT DUTY JOBS WITH HEIGHTS TO 40 FT. AND LOADS TO 50 LBS. PER SQ. FT.

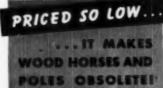
Here's a new STEEL scaffolding costing so little that you don't even have to consider outmoded, dangerous wood horses and pole-and-crossbar scaffolding?

Priced surprisingly low, Safway "4 by 4" Scaffold is strong, rigid, versatile and safe—ran be used profitably for all light duty jobs. Learn how you can benefit with the new Safway "4 by 4"! Check those features:

#### ADVANTAGES OF SAFWAY

- Lowest cost scaffold for loads to 50 lbs. per eq. ft.; heights to 40 ft.!
- Made by the originators and leading manufacturers of metal frame scoffolds!
- Approved by Underwriters' Laboratories, Inc.!
- Safe welded tubular steel construction.
  No splintering—no nails—no fire hazard!
- Cen be re-used indefinitely in other
- Speeds work . . . savas time in assembly and dismontling!
- Permits work platforms at 16-in. intervals with materials always roady at waist level!





DISTRIBUTORS IN PRINCIPAL CITIES



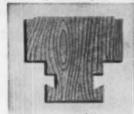


#### **NEW PRODUCTS**

(Continued from page 166)

INTERLOCKING SHINGLES ABSSO46

Tex-Las interfacking double-coverage, heavy-duty interlacking asphalt shingles are designed



to provide extra protection in exposed, highwind sees. Every shingle locks fost to each odjacent shingle, interlocked and firmly anchared with concealed nailing at four points. The Tesas Company, Dept. AB, 135 East 42nd Street, New York, N.Y.

IMPROVED ASPHALT TILE ABBSD49

Improved Azrock asphalt tife and Azphian asphalt tife are results of new formula utilizing. Tremalite talc with ashestos as the mineral aggregate. The use of pulverized inest fibrous



Tremalite tale, asbestas and the customary binders of natural asphalt and coal for residi blended with periodeum-derived plateiters, make these tile stable, dense, resistant to ocid and alkali and less prone to moustare absorption. Dimensional stability gives better cesistance to indentation. Ulvatide Rock Asphalt Co., Clopt. A8, Frost Bank Building, Son Antonio, Testes.

#### PRECAST OUTDOOR FIREPLACE ARRESTAS

New process for making a precast masonry type outdoor fireplace includes a set of precision molds as well as a developed fer-henique for fabricating. Fireplace is mode in eight sections of concrete in rough, natural, and colorful feld-stone finish. Standard Frebax assembly is used for grille. Four sides are built up on flecting slab, Moterials are available in all localities. Process is licensed by sponser. General Engines Co., Dept. AB, Glouvester City, NJ.

#### Sec Stable Home Demand For Remainder of '50

The real estate market outlook for the remainder of 1950 is a healthy stabilized demand for both business property and homes, including continued public appetite for new lowpriced houses, according to the 50th market survey of the National Association of Real Estate Boards.

Over-all volume of real estate sales of all types is expected to equal or top that of last year in 72 per cent of the cities of the country, reports from real estate boards in 470 cities indicated.

Slushing does not properly fill the voids in the head joints.

When morter is spotted on only one corner of the brick, shaking soldom fills the voids.



Even when morter is spotted on both corners of the brick, slushing will not always fill the voids.

# "SLUSHING" INVITES LEAKAGE IN BRICKWORK

#### WE SUGGEST THAT-

Brick should always be so teld that when the brick is showed into piece, the boad or areas juint will be illied saild with marter, without sirshing. If the juints are not samplefuly filled, water may leak through the volds to the inside of the building.

The photos at the left show the voids that often result when slushing is used to "fill" a joint. Even when mortar has first been spotted on both corners of the brick, slushing cannot be relied upon to fill the voids completely.

The great plasticity of Brixment enables the bricklayer to throw plenty of mortar onto the brick to be placed — to use plenty of mortar in the bed joint — and still shove the brick easily into position, with excess mortar oozing out all around, and with all voids filled.

## BRIXMENT

Brixment mortar has greater plasticity, higher water-retaining capacity and bonding quality, greater resistance to freezing and thawing, and freedom from efflorescence. Because of this combination of advantages, Brixment is the leading masonry cement on the market.

LOUISVILLE CEMENT COMPANY, Incorporated, LOUISVILLE, KENTUCKY

## This is the way to balance windows . . . and weatherstrip them too!



#### SASH BALANCE AND WEATHERSTRIP UNIT

De two jake at ance on any faulds-hung window. Here is an installation on an economy frame giving on oil motal sosh run. Or simply "sop "old or new wood parting boods. Allmetal Sush Balantos give stable sush – provides finger-tip control—cuts labor and material costs and provides better windows by weatherstripping as well as beloncing. Send for complete information now.



#### ALLMETAL WEATHERSTRIP CO. 2243 North Knox Avenue, Chicago 39, Illinois

Gentlemen: Please send me complete information and prices.

Abbum Abbum

#### We Acknowledge

#### with Thanks . . .

WHEN the Chicago Business Papers Association recently presented the American Builder with a Certificate of Award "for the excellence in the design and purpose of its magazine's covers" the staff was happy that the ingenuity and effort expended by Lyn E. Arent, our managing editor, and George Clark, our art director, in creating our covers had received public recognition.

Our readers, we felt, would be interested to know how their magazine earned the award. So we called on Lyn Arent to give us the facts.



"One of the first considerations in planning a front cover for a magazine like the American Builder," said Arent, "is to consider the subject matter that will be treated on the editorial pages in that issue. A direct tie-up between the cover and the editorial content is always desirable because it gives the reader an insight into what the issue contains.

"A cover is a poster—the wrapper or attention-getter of our product, the magazine. So we attempt to create one that will attract the attention of our subscribers. To do this a cover should be strong in design, easy to understand, convey a message, and stimulate reader interest. This latter is what we consider the second function of a cover—that is, having induced the reader to look at it, the cover should carry something that leads him into the inside of the magazine. Thus you will find descriptive catch phrases on our covers that refer to the theme or lead features.

"For example, our July cover, a Kodachrome picture of a kitchen, carried the advice '127 ideas on how kitchen and bathroom features aid home sales. . . .' On our November cover last year we called attention to both its commercial and residential stories. To illustrate, we used a line drawing of a store front and put in women and children to suggest the residential aspect of building. The front cover, as you know, is very valuable space, and we try to make it as attractive to our readers as possible."

That the combined efforts of Lyn Arent and George Clark fulfill this ambition is attested in the award from the Chicago Business Papers Association.

-M.C.



★ Exteriors get complete protection from paints based on VINYLITE Resins. There's no chipping or peeling and little chalking. Attractive appearance is maintained longer.



# WALLS WINK AT WORK AND WEAR ...finished with coatings based on VINYLITE Resins

-



\* Interiors stay beautiful because paints based on VINYLITE Resins can be washed repeatedly without color fading. They can be applied directly to fresh plaster.

YOU CAN'T BEAT coatings based on VINYLITE Brand Resins for easy upkeep and lasting good looks!

That's because VINYLITE Resin coatings do not deteriorate when brought in contact with water, alkalies, most acids, and petroleum products. They cling tenaciously to masonry, concrete, or metal without chipping, cracking or peeling. They seal out moisture, resist mildew, are unaffected by corrosive fumes. They are easily applied with conventional equipment—succeeding coats can be applied immediately because they dry dust-free in 5 to 10 minutes. They can be made available in a wide range of colors. These longer-lasting paints will cut maintenance costs for your clients . . . provide lasting satisfaction. Investigate them now! Write Dept. IT-64 for names of suppliers.

Vinylite &

Data courtery Plastic Coating Corporation, P.O. Box 13127, Housson 19, Texas.

BAKELITE DIVISION, Union Carbide and Carbon Corporation TT 30 East 42nd Street, New York 17, N. Y.

AUGUST, 1950



#### **Are Homes Too Small?**

By Martin C. Auggett

Chicago Metropolitan Home Builders Association

Public housing and federal public health groups are circulating propaganda to the effect that the modern snug and well planned home is inadequate in space provisions and are utilizing as examples the old fashioned rambling structures of our forehears. In issuing such propaganda they appear to be at complete cross purposes with the much touted accomplishment of one of their strongest adherents, namely the Tighe Wood house containing around 600 square feet of livable area.

#### At Cross Purposes with Chicago Dwellings Association

Their expressions also cross swords with the sort of home that the Chicago Dwellings Association was attempting to foister upon the veterans of Chicago—a concrete block house containing less than 700 square feet of livable area placed on lots of a size that have been taboo in Chicago for the past ten years. The Chicago City Council promptly threw the whole project in the ash can.

#### Today's Budget Home a Model of Design

The small home of today, call it the "Budget Home" if you so desire, is the result of more research and study than any other factor of modern living. It is neither too large nor too small for comfort. In some of its elements it promotes comfort and convenience by its very compactness. Taking a leaf from the book of dining car design the 10'x10' or 9'x12' kitchen provides more downright convenience, utility and scientific operation than one four times as large in the olifien days.

#### Accomplishment without Effort

One housewife with an apron over her best dress can accomplish more in today's compact kitchen than a hot sweaty housewife assisted by two scullery servants in the olden days. A slight education in the handling of mechanical conveniences plus the turning of switches and pressing of buttons does the job today with astounding facility and few steps.

#### Waste Room-and How!

The home of our ancestors contained a musty front parlor dressed up for company and opened only when guests appeared. It was a stuffy, formal and unlivable room that now has been completely eliminated. Then there is the dining room—still on the table for discussion—used for an hour or less, three times a day or less. The dining room has been growing smaller and smaller until its destiny appears to be an alcove off the living room generally usable at all times and becoming a dining space when the drop-leaf table is pulled out and set for a meal. A similar alcove is often in the kitchen because the modern kitchen is no longer a scullery. Cooking times and heat as well are exhausted by electric fans and the atmosphere is cool and wholesome.

#### Every Square Foot in Constant Use

The modern living room is ample and really a living room, the center of family activities. The bedrooms are compact but every space is used. The tendency is to have them on the main floor, so that they can be utilized during the day as part of the living area. At the same time adequate storage is a matter of the most careful planning.

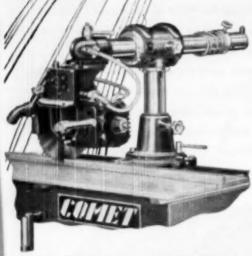
# Eye appeal for prospects with sharp pencils

Houses that "look like more than they cost" are a feather in the cap of any builder. And when good looks and economy are backed up by real durability, you're offering a value that can't be beat.

To do just that, more and more builders are using the Keystone System of Stucco Application. Architects are specifying it. Buyers recognize it as a real sales feature. Let us send you the facts, in the new 44-page "Keystone System" booklet today. Write Keystone Steel & Wire Company, Peoria 7, Illinois.



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COMETS and quicker



ELEVATED slooping section over garage is interesting feature of Southern California student-designed house

#### Architectural Students Choose Split-Level House

A N EXPERIMENTAL project in Los Angeles—the construction of a model home sponsored by the University of Southern California and firms connected with the building industry in the area—has proved very successful for all concerned. Valuable practical experience was gained by the four senior students of architecture who designed the home after consulting with experts in building, financing and selling homes; profits of the sale of the house went to the University for architectural research; and much favorable publicity was given the participating business organizations.

The attractive ranch-type house contains 1484 square feet of floor space. A design feature is an arrangement of levels which places sleeping quarters a few feet above the living space, completely separating the two yet permitting a compact plan. The design also stresses outdoor living: an entire glass living room wall including glass door faces the patio; and the kitchen is situated to provide a view of the garden

(Continued on page 176)



VIEW from dinette of entry and steps to sleeping quarters



WESLOCK

CYLINDRICAL LOCKS

 240 Exterior Lock Set with No. 256 Moderne design except the area

# High Style on a Budget

In WESLOCKS you get the ultimate in hardware design, yet priced to meet the most modest budgets. Their many quality features such as five-pin tumbler and key-in-knob construction, split-spindle operation and factory assembled units are usually found only in the most expensive locks. You also get a wide choice of types and finishes. Standardize on WESLOCKS, the budget-priced quality line for every door in the house. Send today for a complete catalog.

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Architec.: Ed Welz

Princess Park Manor, Miami, Floride 174 bamus, F.M.A. insured Acakitect: Tyrus T. Triag Builder: Mass & Son, Inc. Hardware Contractor: State Hardware & Paint Co. Plamings Village, Milani, Ricride
 220 hanner, EM A. Incured
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...which combines both fan and blower principles. Its exclusive design gives Blo-Fan the volume of a fan plus the power of a blower in order to move more air—quickly, quietly with greater efficiency.



#### HERE'S WHY!

Seventy-five per cent of the air moved by a breeze fan is thrown from the blade tips. The center is weak when it meets resistance. A fan delivers volume, but lacks power.



A blower draws a smaller amount of air into the vortex, discharging it with great power, thus overcoming resistance. A blower delivers power, but lacks volume.



The Blo-Fan blade is designed so that the fan element feeds the blower element keeping the vanes fully loaded at all times. That's why Blo-Fan delivers more air with more power.

SPOT VENTILATION AT THE POINT OF AIR POLLUTION to kitchen, both, game room and foundry

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Hox B-S, Pomona, California

A personal will bring you complete bla-feet information and the name of your nearest distributes.

Manufacturers of fre-Litas - the modern received lighting fixtures with and p-an

#### Architectural Students ...

(Centinued from page 174).

and play area. The yard is completely enclosed with a redwood fence in basket weave pattern, a type which originated in Australia and is sometimes called a Mendocino fence.

To the left of the vestibule are the living and dining rooms and the kitchen entrance. A flight of stairs on the right leads up about five feet to the sleeping quarters, and at the right of the head of the stairs is the combination den-guest room.



PATIO. 15 x 24-fast, is adjacent to indoor living-dining area

This room is open on the hall side, and is in effect a balcony from which the living room and patio can be seen. When used as a guest room its hall side is enclosed with curtains.

Exposed 2 x 6 beams are used on the ceiling over the entry and den. A large glass area over the front door and a glass panel adjacent to the door admit light to the entry



FIREPLACE to finnhed by 6-inch natural-finish redwood boards

and den. The bedroom interior wall and ceiling surfaces are of plaster. Windows are placed high in these rooms for privacy and to provide more space for furniture. There are two baths, one on the upper level and one off the service porch.

A translucent glass partition, with a redwood frame, separates the dining space from the foyer. The fireplace wall of the living room is paneled rertically with 6-inch redwood boards in natural finish. The bouse has an all-gas kitchen, including a range, refrigerator and water heater.

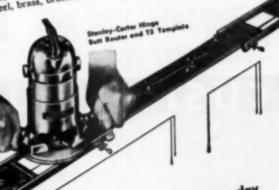
The exterior is of natural-finish redwood boards and batts. The garage is located under the raised portion of the house. Vermiculite is used in the built-up roof.

Firms cooperating with the University were: the Walter H. Leimert Co., which made the land available; the California Federal Savings & Loan Co., supplier of the construction tonner; the Southern California Gas Co. which installed the New Preedom Gas Kitchent Barket Brothers, furnishings, and Art Schith, contractor, who built the house at cost.



## for hanging doors perfectly every time - with millwork accuracy and speed

Doors hang perfectly when you use a Stanley-Carter HB8 Hinge Butt Router and Stanley RD Butt HBB Hinge Butt Router and Scanley RLI Butts Hinges. Stanley No. 241 and No. 242 Butts with round corners are built to the Stanley quality standard, which is the standard of the world. In plated steel, brass, bronze, and aluminum.



# Butt mortise 75 doors and jambs a day

With a Stanley Carter Template and precision power Router you can cut out for butts at least 6 times faster than by hand. And do a better job! Every mortise is perfect. Use of round cornered hinges eliminates need to square up corners of mortises.

Save time and cut costs with Stanley RD Butt Hinges and Carter Hinge Butt Equipment the right combination for millwork accuracy and speed right on the job. See your dealer or write for complete information.

PENEMBER THE PRESE MINOR TO A POOP

#### New Laboratories Dedicated by Portland Cement Association



AERIAL view of Portland Coment Association's three million deliar Research and Development Center at Skokie. Iti.

Practicing what it preaches, the Portland Cement Association insisted that its two new laboratory buildings represent the best in economic concrete construction. Embodying no striking innovations or costly departures from conventional construction, the new Research and Development Center dedicated at Skokie, Ill., does, nevertheless, hold many lessons for the large contractor—and for the small builder who can profit from observing the unique uses of masonry units, lightweight aggregates, portland cement paint, architectural concrete and flat concrete structural beams.

Here in the world's largest and finest laboratories devoted exclusively to research and development in the fields of portland cement and concrete, PCA will continue its campaign first launched in 1916 to improve and extend the uses of portland cement and concrete—supported by voluntary contributions from 67 member companies which produce 9/10ths of the cement manufactured in the United States and Canada.

#### **Kettering Speaks at Dudication**

A General Motors Director and Research Consultant, Charles F. Kettering, key speaker during the dedication ceremonies of the buildings, stressed in his interesting address the notable function research and development have played in the industrial progress of the nation, pointing out that the most valuable asset with which the researcher can be endowed is an imagination that never says "no," is not intimidated by "proof" of impossibilities. As presiding officer of the occasion, Dr. A. Allan Bates, vice president (Continued on page 180)



AUXILIARY building of PCA Contar is seen beyond overhead passageway across court of main building. Testing room right

## CUSTOM BUILT SINKS



JUST LINE Radiibuse Sinks are precision built of No. 16 U. S.

standard gauge Stainless Steel. Reinforcing U-shaped steel chan-

nels extend the full length of the drainboards and prevent warp-

ing, bulging and sagging. Die drawn raised edges and electric

welding throughout eliminate all joints, seams and overlapping

flanges and assure the greatest degree of sanitation.

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Whether you are planning a new building project or the modernization of an old one, we will build a "JUST LINE" Stainless Steel

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to meet your most exacting specifications. Now you can exercise your creative ability to the fullest extent in the planning of the modern kitchen.

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You'll find that Chase Copper Tube can be installed quicker, lasts longer and does a better job for soil, waste and vent lines.

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Space between doors can be varied
-- no limit on number of doors

Less Headspace is required

Track can be used for Trim
in cabinets and show-cases,
because open side of track faces in,

Enforter view
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**Economically designed for lower cost!** 

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YOUR DEAL	IPS NAME

#### **Portland Coment Association . . .**

(Continued from page 178)

for Research and Development, PCA, introduced PCA's president, Frank T. Sheets, who spoke on the mission of the association, and Walter C. Russell, chairman of the board of directors, who, with his associates, cut the ribbon, marking the official opening of the center, Dr. Bates also spoke during the program on the fields of research of PCA and relations to the practical world, making public PCA's progress with soil-cement and prestressed concrete (discussed below).

#### Inverted Reinforced Floor

One difficulty faced by Carr and Wright, Inc., architect and engineer, and Turner Construction Company, contractor, in building the Center was the high water table of the land. Spread footings support the auxiliary building, but concrete piles 35 feet long with a 30-ton bearing capacity were used under the main building. To resist the pressure of the high water table, the eight-inch concrete floor is constructed as an inverted reinforced slab.



SWITCHBOARD enclosure is foced with precent terrozzo

The concrete walls, reinforced concrete frame and floors and masonry partitions of the laboratories enclose 98,000 square feet of floor area—four times that formerly occupied by the laboratories in the PCA headquarters building near Chicago's loop.

Designed for concrete with 3000 per compressive strength, the buildings were constructed using all brands of cement available in the Chicago area with aggregate from South Beloit and Elmhurst. Ill. Water ratios were 5.7 gallons per sack of air entraining cement and 6.0 gallons per sack of regular cement. Tests were made on each 75 cubic yards of concrete although specifications stipulated only one test per 400 cubic yards of concrete. During cold weather construction, the temperature in the working areas was kept at 55 degrees F. with the use of portable heating-blowing units. Vertical joints at 22 feet intervals (to control cracking), formed with two-inch strips of wood tapering to ½-inch and extending 1½-inch into the wall with ½-inch protrusion for removal, were filled with mastic—and carried through adjoining masonry furring.

#### Variety of Forming Used

At least five kinds of forms were used in building the Center: wood and plaster molds cast the recessed reeded piers; 1 x 8-inch chamfered-edge, center matched Douglas fir boards left a distinctive architectural pattern on the exterior walls formed on the interior by 1 x 6-inch yellow pine; ½-inch plywood formed undersides of floors and beams.

(Continued on page 182)

# 8-FOOT BLANKET TYPE

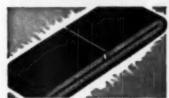




# ROCK WOOL Batts

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Barrett offers you a complete line of Rock Wool Insulation Products—granulated, loose, blankets, and batts. Available promptly in mixed deliveries from your nearest Barrett distribution point. Resilient, clean, lightweight, and quickly applied, Barrett Rock Wool combines excellent thermal and acoustic properties with modest cost. And the Barrett name is kept prominently before the public by constant and extensive advertising.



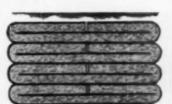
8-FOOT LINGTHS. Go on faster. Fewer seams—an unbroken vapor barrier from floor to ceiling—mean better insulation, less condensation. Also available 15" x 48", full and semi-thick.



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softens sound. Cuts down outside noises and, strategically applied to partitions between rooms (as in the case of a bathroom or playroom), it virtually simulates sound transference.



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#### Portland Cement Association . . .

(Continued from page 180)

#### **Exposed Masonry Interiors**

Most walls in the Center are exposed masonry units finished with portland cement base paint, for in addition to their econny and appearance, concrete masonry units have a 40 to 50 per cent sound-absorbing capacity. (Exceptions:



SOUND-ABSORBENT concrete masonry walls painted in pastel shades, and fluorescent lighting help make working conditions in those offices of Research and Development Center pleasant

walls in kitchen, some storage rooms are plastered; toilets have cast stone wainscoting.)

To provide lateral stability for walls, 14 gauge steel

angles four feet long spaced four feet apart were fastened to certing and integrated with walls. This and other metal fastening was done with fastening guns using 22 calibre cartridges. Mesh used in joints and reinforcing bars in units above openings furnish additional strength to walls constructed of three sizes of masonry units: three-inch for furring; four-inch for partitions between rooms; six-inch for corridor walls.

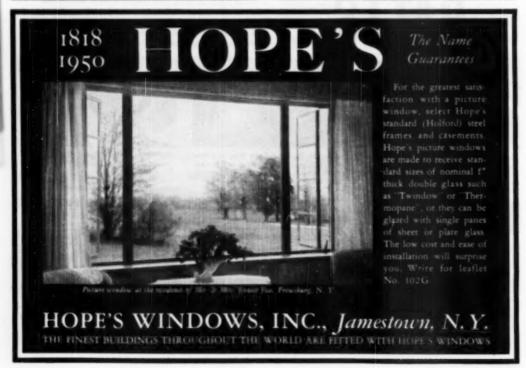
When approaching the lobby, one is confronted with many uses of cement, for here exterior walls reflect achievements in cast-in-place architectural concrete matched in appeal by the cast stone with granite and quartz aggregate used on lobby walls. Ornamental panels on the underside of the entrance canopy were precast as were the art marble facings of the reception desk and stairway. Marble chips were employed in the patterned terraizo floors of the lobby while adjacent corridors have asphalt tile floor coverings as do the offices and auditorium. Although suspended ceilings in halls conceal conduit, all other ceilings are exposed concrete.

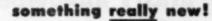
During construction, John H. Banker, construction superintendent of Structural and Railways Bureau and R. E. Philleo, assistant research engineer of Field Research Section represented the owner on the job. The special committee on building facilities of PCA included M. Moss Alexander, chairman; Emory M. Ford; Joseph S. Young; and ex officio, Walter C. Russell and Frank T. Sheets. The technical advisory group included Henry P. Reid, chairman; E. A. Ledyard; Myron A. Swayze; L. A. Wagner; G. L. Lindsay; G. E. Warren; Roy N. Young.

#### Thirty Laboratory Sections

In one of the 30 laboratory sections of the Center, the triaxial testing machine aids research in soil-cement while

(Continued on page 184).





# COLOR-MATCHED MOULDINGS

#### ... for MARLITE

New color harmony for Marlite walls and ceilings in every type of residential and commercial interior is now possible with this brand-new line of Marsh Color-Matched Aluminum Mouldings! Featuring the same durable plastic finish as genuine Marlite panels, they need only an occasional wiping with a damp cloth to keep them spotless. The baked finish seals out dirt, grease, moisture . . . reals in all the striking beauty!

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One for every customer -- With the new Color-Matched Mouldings available for Deluxe and Velvetex Marlite, there is now a Marsh Moulding to suit every customer's taste. Special Mouldings complement Wood Pattern and Marble Pattern Marlite, and the regular Marsh Aluminum Alloy Mouldings are available for those who prefer bright metal trim.

Put this complete line to work for you now. Plan Marlite interiors that will please your most fastidious clients-with Marsh Color-Matched Aluminum Mouldings! Mail coupon for complete details.

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THE MENGEL COMPANY

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#### Portland Coment Association . . .

(Continued from page 182)

in another the extensometer measures lineal variations up to 10,000th of an inch. PCA's soniscope developed by engineers John Guthrie and James Kennedy "penetrates" 50 feet of concrete with sound waves, the elupsed time of transmittal and receipt of which furnishes data for analyzing the concrete's interior. Also surprisingly delicate is the 1,000,000-pound testing machine, one of six ranging in size, whose power and instruments will measure the compressive strength of a concrete beam—or an egg shell.

Heavy, noisy, dusty operations are performed in the auxiliary building where cement and aggregate are stored—where pilot plants, kilns and vibrators are installed from which dust is drawn by a 9,600 cfw dust collector installed on the roof. In the main building, special laboratories are assigned to soil processing, concrete batching, and cement and mortar testing with rooms of controlled temperature



TESTING mechine of one million pounds capacity at PCA's Research Center crushes concrete specimens to determine strengths

(20 below to 130 degrees above) and relative humidity (up to 100 per cent). In special rooms with brine tanks and other testing equipment, concrete specimens are subjected to heating-drying, cooling-soaking, freezing-thawing cycles for analytical data.

Offices with their sound-absorbent walls are conveniently located near laboratories in the Center, but the library in a less trafficked portion of the main building, offers thousands of documents to research workers, covering the sast array of groundwork already done by scientists the world over also interested in this vital stuff—concrete—the chemical formula of which is still one of the world's unknowns.

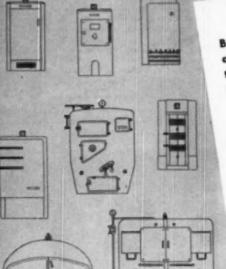
As new advances are made, as new announcements are pronounced, interested audiences will gather in the Center's auditorium decorated in pastel shades with continuous horizontal and vertical joints casting faint checkerboard shadows. Here, too, in one cortier that can be enclosed with a folding wall, a dining room serves workers and guests with good food and pleasant coffee for those minutes of relaxation from the un-ending task of making this building product, already one of the most versatile in the

(Continued on page 186)

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backed by more than 60 years' leadership



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Boilers for all types of fuel and all methods of firing. Capacities from 290 to 45,000 square feet, steam.

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for <u>every</u> building...for <u>every</u> fuel

76 DEPENDABLE MODELS TO CHOOSE FROM

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#### Portland Comont Association . . .

(Continued from page 184)

industry, an even better servant of the nation's builders and the nation's home owners.

#### Association Objectives

With 26 district offices in 45 states, Washington, D.C., and Canada, the Portland Censent Association pursues with thoroughness its five objectives: scientific research, development of cement-using products, promotion, education and technical service and accident prevention in member companies. To these ends, the sections of administrative offices, ten technical and promotional bureaus and research and development division employ a headquarters staff of 180 employees and a field organization of 300, handling 300,000 inquiries annually, distributing (during the past 10-year period) 25,011,000 pieces of literature on 400 subjects.

#### Safety Promotion

One of PCA's assets is a sand library in which 3000 samples of sand are filed to speed queries about use of soil from any part of the United States. A further service has been PCA's promotion of safety and accident prevention among the industry's plants, for each year the PCA Safety Trophy is awarded to the member company mills that qualify with an outstanding safety record.

Over one million dollars have been spent by the organistation during the past generation on fundamental research to insure that the 300,000,000 tons of concrete used annually in the U.S. are the best available to the consumer. In outline, current and past projects of PCA include: water-cement ratio principle, air-entraining portland cement, pressuregrouting for railroad track stabilization, accessical and insulation values of concrete, design for pavements, analysis of stresses in reinforced concrete, house building, colored concrete, precast concrete products and long-time studies of centient performance. Officers of PCA (others not mentioned above are: Carl D. Franks, vice president in charge of promotion; W. D. M. Allan, director of promotion; Hubert Woods, director of research; H. F. Gonnerman, assistant to vice president for research and development) maint that all PCA patentable inventions are dedicated to the public—all discoveries are available for common use.

#### Soil-Coment

What are the newest-or at least two current-interests of PCA's research and development staff?-soil-cement and prestressed concrete. Today, although few city dwellers are aware of it, 3,300 miles of secondary roads are paved with soil cement-23 million square yards of soil-cement furnish landing areas for modern airplanes. In all these uses, 90 per cent of the paving was completed with soil found on the site. Seven to 16 per cent mixtures of portland cement can convert practically all common American soils into hard, durable pavement for roads subject to light traffic and runways. With a total of 66 million square yards of soilcement in use today, PCA is plugging, with full use of its soil testing equipment, to expand this figure as it works out the problems of soil mechanics in its special laboratory. What happens to soil mixtures when subjected to traffic, weight, weather? These are only a few of the practical questions that find solution in this Center where "how" and "why" are constant queries.

#### **Prestressed Concrete**

What about prestressed concrete? It's an old subject; the first patent was, in fact, issued to an American, P. H. (Continued on page 188)



#### America's Finest Hoe Type Machines

Choose a "Super Six" or a "De Luxo" and you'll get a light-weight unit with quality features usually found only in expensive, beavy-duty installations. Sealed boe, jack shaft bearings, renewable blades, triple mixing boes minimize repairs and guarantee money-making performance. Send TODAY for illustrated, descriptive Bulletin HM 5491.







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new Hi-Baked Plastic Enamel Surface For Walls. It is finished when installed. No painting or varnishing required. Will not crack, craze or chip. Four modern distinctive patterns in eighteen colors. Dealers find Tylac a fast-moving profit item.

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\*Hog. U.S. Pat. Off.

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RODDIS PLYWOOD CORPORATION, Marshfield, Wis.

(Continued from page 186).

Jackson of San Francisco, in 1888, but the American builder's concern for mass, his impatience to learn new techniques of subtle thinking and the ready availability of materials let the invention atrophy-to be capitalized on by European engineers who, especially in recent decades, face crippling material shortages and who must build to calculated stresses, who must make every pound of material count. It is in France, England and Belgium that prestressed concrete is fast finding acceptance.

In prestressing concrete, super-imposed compressive stresses are set up in the concrete unit with steel wires or rods (cast integrally with the unit in PCA's experiments) to neutralize tensile stresses. The unit is compressed like bricks held together with compressive strength in a stacking clamp.

#### **Advantages of Presiress**

Prestressing means more economical concrete construction-longer, unsupported spans and greater tensile strength-and will likely lead to ". . . new principles and forms of architecture , . . " according to Dr. Bates. New forms have already evolved in Europe where prestressed units have been used in longer unsupported spans for roofs, bridges, ceilings with lighter structural members.

In England prestressed "sleepers"-railroad ties in our language-are gaining favor and prestressed precast reinforced beams were used in 1946 for the railroad bridge at Wigan and across the 60-foot span of a bridge in Lincolnshire in 1948. In the United States, engineers are watching with interest this exciting undertaking: the Walnut Lane Bridge, Philadelphia, which will span a 160-foot ravine without intermediate supports, using prestressed concrete structural members.

How these new fields will affect the portland cement market is not known. The present market breakdown is as follows: structural-28 per cent; paving-22 per cent; housing and small uses-22 per cent; conservation-16 per cent; farm-12 per cent. Of course, it's the market that PCA is, ultimately, working for, but PCA is working to build a bigger cement market, as President Sheets said, . . . in the public interest and to build a greater America."

#### FNMA Transfer Would Check GI Housing, NAREB Witness Asserts

President Truman's proposal to transfer the Federal National Mortgage Association (FNMA) to the Housing and Home Finance Agency would, in effect, smother the veterans' housing program, according to a recent state ment before Congress by Calvin K. Snyder, secretary of the Realtors' Washington committee of the National Association of Real Estate Boards.

Snyder testified before the Senate Committee on Expenditures in the Executive Departments, in support of Senate Resolution 299. The measure, introduced by Sen. Walter F. George (Dem., Ga.), calls for Senate disapproval of the President's Reorganization Plan 22. This plan would transfer FNMA from the Reconstruction Finance Corporation to the HHFA.

Asserting that HHFA "has steadily been increasing in power and political influence since its formation in 1947," Snyder predicted that the proposed transfer of "Fannie May" would give HHFA control of the secondary mortgage market, resulting in a serious impairment of the GI home building program by allowing HHFA to dominate the Veterans Administration on housing matters.



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Since August, 1949, National Homes has <u>doubled</u> its number of dealerbuilders. Why? Because our houses yield greater profits to dealers. AND because our strategically located plants at Lafayette, Indiana, and Horseheads, New York, offer the utmost in uniform quality and dependable



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Illustrated with 60 photos of National Homes: factory scenes, features, projects, interiors and exteriors, floor plans. The dramatic facts about the Nation's Largest Producer of Prefabricated Homes. Send for it today. deliveries. AND because trained field men help solve dealer problems of financing, selling, erecting. AND because we back up our dealers with color ads in leading magazines — the most powerful national advertising program in the housing field.

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CATAL CHAP
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River St., DIXON, ILL.



HOST popular Hillaide Turrace house is "The Regent" at \$11,000

#### New 300-Home Eastern Project Is in \$10,500-\$14,000 Range

THREE model houses, including a four-bedroom home with two baths priced below \$14,000, were recently opened for public inspection in a 300-home Long Island, N.Y., development.

Located in the village of Albertson, Nassau County, the homes were built by Joseph Carillo, Joseph Wanes and Samuel Levin, who completed a 217-house subdivision in New Hyde Park a few months ago. Two of their model homes in the new Hillside Terrace project at Albertson were decorated by the New York (esigners, Nardin and Radoczy, Some built-in furniture, designed by the decorators is also used.

Currently, 97 of the 300 bouses priced from \$10,500 to \$13,990 are under construction in the new \$3,500,000 project at Albertson on a 55-acre site. All the bouses have full basements and expansion attics and are on landscaped plots of 6,000 square feet and larger. They were designed by William P. La Vallee, Jamasca architect.

Most popular of the three models is "The Regent" which contains a center hall and five rooms, including two first floor bedrooms, in its 944 square feet of living space. It is priced at \$11,090. Nearly 100 of these houses have been sold from a pilot model in the builders' New Hyde Park development.

No down payment is required from war veterans. With (Continued on page 192)

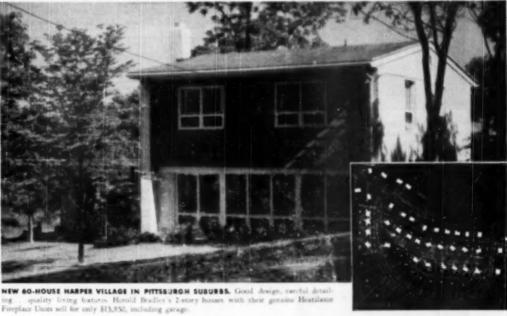


"THE REGENT" has 944 square feet of living space



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says Herold Bradley, prominent Pittsburgh Architect and Builder



M. BRADLEY insisted on Heatilator\* Fireplaces because he knows they help sell houses faster . . . and are trouble-free. As Mr. Bradley puts it, "Heatilator Fireplaces won't smoke . . . they circulate heat . . . and they add little to the cost of the freplace." Heatilator Fireplaces are important sales features of Mr. Bradley's new 60-house development, where careful designing has cut construction costs \$2 a sq. ft. below current prices.

You can attract customers with the assurance of smokeless, troublefree fireplaces when you specify genuine Heatilator units. Even inexperienced masons can't go wrong because the Heatilator unit provides all vital fireplace parts in one compact form. No extra parts to buy or build. It saves on expensive firebrick. It saves mason time and labor because all designing is done.

The Heatilator unit takes heat that is ordinarily wasted and circulates it to every corner of the room . . . and to adjoining rooms as well. On cool Spring and Fall days, furnace operation is unnecessary. In mild climates, it's the only heating source needed.

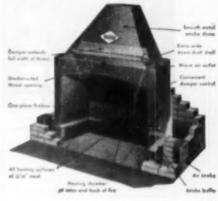
People recognize the Heatilator name . . . it's been advertised in national magazines for over 23 years!

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Brighton Ave., Syracuse 5, N. Y. \*Mostileier is the reg. trade mark of Heatileter, Inc.





First - The TEMCO Gas Floor Furnace brought automatic heat within the reach of every home builder. How - TEMCO offers a Gas Wall Furnace for installation with any type of construction. The TEMCO Gas Wall Furnace requires no basement, can be installed on first or oecond floors or where slab type foundation is used.

Check the possibilities of a TEMCO Gas Furnace before you specify the heating system for any home. And—weigh carefully these TEMCO Gas Wall Furnace Feetures:

- fusy to install fits Between Standard 16" o. c. stud construction.
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- Cabinet finished in Nummer Tane and styled to Nermaniza with Madern Name Furnishings.



------

#### New 300-Home Project . . .

(Continued from page 190)

a full mortgage, monthly payments of approximately \$69.50 cover principal amortization, interest, taxes, fire insurance and water. Veterans' mortgages are for 30 years at 4 per cent interest and are financed by The Dime Savings Bank of Brooklyn. Non-veterans pay \$1,640 down and payments total approximately \$71.50 on a 4/4 per cent 23-year FHA-insured mortgage.

The four-bedroom house, priced at \$13,990, is simply "The Regent" with its expansion attic finished into two bedrooms and a second tiled bath, with a linen closet in the large upstairs hallway. The additional rooms were



FOUR-SEDROOM two-both house for \$13.996. Additional rooms were obtained by finishing expansion attic of \$11.090 "Regent"

finished to show prospective buyers the possibilities of additional space contained in an expansion attic, and at the same time provide a four-bedroom house with two baths at a moderate price. This house contains a total of 1,336 square feet. One of the second floor bedrooms in 11  $\kappa$  13 feet and the other is 11  $\kappa$  14 feet 6 inches.

The lowest priced house in the development is "The Albertson" model selling at \$10,590. It contains 804 square feet and is of modern ranch-type design with a 9 x 6-foot picture window in an 11-foot bay of the living-dining room overlooking the rear yard. The stairway to the expansion attic rises at one side of the 22 x 12-foot 6-inch living-dining room.

All three models have colored ceramic tile bathrooms with plastic-topped vanity-style lavatories, large plate glass wall mirrors, medicine chest and built-in clothes hamper. Purchasers have a choice of bathroom colors. The second floor bath in the four-bedroom model has a conventional lavatory.

(Continued on page 194)



WIDE, vanity-type lavatories with colored plastic tope and large plate glass mirrors are standard equipment for baths in project



For Cabinets that are flexible in use, in color finish, in installation simplicity and that fit any size or shape of room, select Nu-Style Multiple-Use Cabinets.

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WELL MANUFACTURED
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#### New 300-Home Project . . .

(Continued from page 192)

The houses are built on 10-inch poured concrete foundations with more than seven feet of baselmon throughout the basements. They are fully insulated with non-combostible rock wool in all walls as well as above the ceilings. Oak flooring is used throughout except in the kitchen where the buyer is offered a choice of colors of inlaid linoleum. Flush-type doors in natural wood finish are used throughout.

The heating system is an oil-fired Bryant warm air furnace in the basement. Air is humidified and filtered before passing through the ducts. In summer the ducts can be used to circulate cool air through the house. Heating ducts have been extended into the attics and capped, ready for use whenever it is desired to finish the second floor.





\$10.590 home features an open plan of living room. dining area and kitchen with picture window overlooking the rear yard. All houses have full basements

Included in the selling price of all homes in Hillside Terrace-at-Albertson are a 30-gallon automatic gas water heater and stationary laundry tubs in the basement, a tabletop gas range, automatic electric ventilating fan and wood cabinets in the kitchen, and door chimes in a telephone niche near the front entrance.

The master bestrooms in all three models have slidingdoor closets. In "The Regent" this closet is seven feet long and has built-in shelves in the center. In "The Albertson" model the sliding door closet is four feet long, but a second closet is provided in the opposite side of the room.

Although all houses are built on two standard plans, purchasers are able to select numerous variations in window treatment, exterior finishes and roof styles. Variations afforded by stone, brick or vari-colored shingle or clap-

(Continued on page 196)

# INE MOST HANDSOME

# THE MOST HANDSOME DOORS IN AMERICA!

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Rich modern beauty dramatizes any exterior or interior with Kawneer All-Aluminum Flush Doors. Their lustrous finish and simplicity of styling makes them unequaled in striking eye-appeal.

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STANDARDIZE ON CORSIN MADE TUBULARS - THERE DIVISION
IS ONE FOR EVERY DOOR The American Hardware Corp. FUNCTION.

P. & F. CORBIN New Britain, Connecticut

#### New 300-Home Project . . .

(Continued from page 194)

board fronts, together with roof dormers, gables and different styles of windows.

Because the houses are located on landscaped plots with minimum frontages of 60 feet, there is adequate space for attached garages. These are supplied by the builders for an additional \$1,000.

The standard house exterior has a front of colored



EXTENDED cuphoard with shelves forms separation between kitchen and dining area of one of model homes in Hillside Terrace development. Finish of kitchen cabinets blends with cuphoard

wood shingles and vertical siding stained and shellacked in natural color. Six color choices of wood shingles are offered purchasers. Brick or stone fronts are provided at a slight additional cost. The ends and rear of the houses are of white asbestos shingles, but several early purchasers have paid a small additional amount to have colored wood shingles substituted.

The Hillside Terrace-at-Albertson development is laid out with winding paved streets. One part of the development extends to within 300 feet of the Albertson station of the Long Island Railroad, while the other side of the development is passed by a bus line which provides a connection with the subway at Jamaica. Plans are now being made to locate a new grade school at one corner of the project. Stores and shops are located within a block of the subdivision and plans are under way for the erection of additional stores in the nearly area.

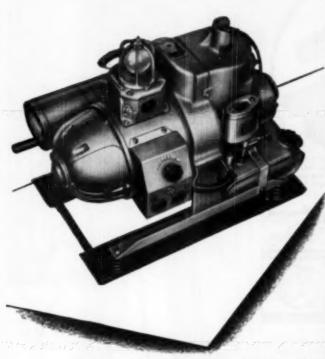
#### Report Gain in Pretab House Sales

James R. Price, president of the country's largest prefab house company, National Homes Corp. of Lafayette, Ind., reports a sales gain of 181 per cent this year. National has turned out 2,634 units in five months compared to 939 in 1949. "We have orders on our books for 10,000 units for all of 1950; last year we sold 4,435 units," the 38-year-old official declares.

-Wall Street Journal

# From Every Angle

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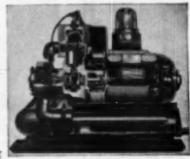


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3. Service, and you'll always slick to a Hamelite.

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2. PERFORMANCE. Once you begin to use a Momelite ... you, even when you see it demonstrated ... you immediately appreciate its outstanding performance. Light enough for one next to carry, a Homelite pocks the power needed to keep hand tools running at full productive capacity ... and floodlights burning at full brightness ... at any time at any place in all kinds of weather.



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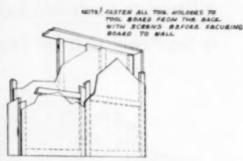
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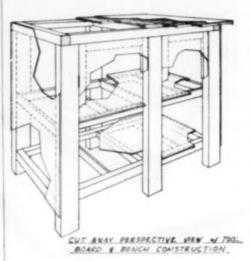
DE WALT

## How to Build a Garage Work Bench and Cabinet

Too often the excess space in a garage is no-man's-land, when it might just as well be put to purposeful use. Since there always is tinkering to be done in the garage, whether it concerns the automobile, house, yard or garden, this location is excellent for a narrow workbench and a tool board.

There usually is room at the end of the garage, or at one side, for a small workbench like the one illustrated.



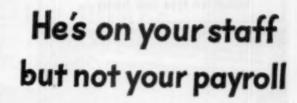


Constructed of 2-inch by 2-inch and 2-inch by 4-inch lumber, the workbench is 34 inches high, 4 feet long and 2 feet wide. The latter dimensions include a 3-inch overhang of the working surface.

Inside the workbench are two shelves, each constructed of Masonite Masonite

Six pieces of 2-inch by 4-inch lumber provide sturdy

(Continued on page 200)



It was a tough heating problem. But the builder who faced it knew of a proved source of ongineering aid on heating. And the Bryant distributor brought in the answer.

Yes, Bryant distributors welcome such opportunities. Complete and thorough factory engineering assistance is at their call. Thus, thinking of the industry's largest staff of gas leating engineers becomes an extra Bryant service for builders from coast to coast.

Other plus factors of the Bryant program are the opportunity of getting most everything in gas heating equipment from a single source . . . a near-by distributor with adequate warehouse stock . . . a nationally famous brand name that clients recognize for its quality.

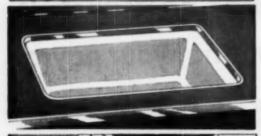
If you are one of those builders who likes to get more than just the product when you put it into your homes . . . check with Beyant!



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# How to install the NEW CHROMTRIM fold-down type sink frame ...





Align CHROatTess sink frame over appening. Embed it in Wernco waterproof adhesive and scraw down permonently. Frames are pre-drilled with open-tersunk holes. Use strewn supplied.

Cut covering material to fit over frame. Spread Werons water proof adhesive overlag over tink top and press or rall down covering material to smooth out all air bubbles.

Fold down lip over motorial, starting with wead block and homer. Continue with block and hand presure until adherive squeezs out at adjas. Clean off excess adhetive immediately.

CHROMTRIM preformed, fold-down frames are available in 13 popular sizes. Pold-down lip grips all covering materials ... makes tight waterproof joint on plastics, linoleum, etc. from 1/16 in. to 1/8 in. thick. Available with square back or tapered flanges. For extra beauty, finish outer edges of sink top with CHROMTRIM fold-down underface nosing.

How to form your own sink frames on the job



Use CHEOMTRIM straight face nosing, edging or folddown type nosing. Slit the flange or underface shapes as shown, to form rounded corners. Saw one slit only for square corners. Write in for complete information.

A complete line of over 200 metal mouldings, aluminum, some stainless steel. There's a CHROMTRIM shape for every need. See your distributor.



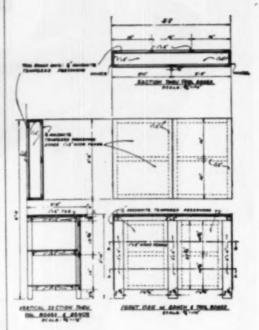
R. D. WERNER CO., Inc., 205 Fifth Avanue, New York 16, N. Y., In Connels: R. D. Worner Co., Ltd., Oshowa, Ont.

#### How to Build a Garage Work Bench . . .

(Continued from page 198)

legs for the bench. To give rigidity to the frame, 2-inch by 2-inch lumber is nailed to the top of the legs and at a distance of 3½-inches from the floor. The tongue and groove backing for the working surface and the bottom shelf are also supported by these framing members.

Separate from the workbench, suspended on the garage wall, is an enclosed tool board which is 2 feet 8 inches



high and the width of the bench.

Sides of the tool board are 1-inch by 6-inch lumber. The back and the doors are framed of 1-inch by 2-inch lumber and covered with Masonite 1/4-inch Tempered Presdwood.

Holders for the tools, which may be purchased or made on the job, should be screwed to the board from behind before it is fastened permanently to the garage wall. The inside of the doors may be used also for suspending tools and small garden equipment.

A copy of the plan may be obtained free by writing Masonite Corporation, 111 West Washington St., Chicago 2. Ill., and asking for drawing No. AE-250.

#### **Fuel Saving Method**

The installation of a tempering tank between the water meter and the water heater will save fuel in the heating of the domestic water supply for the kitchen, laundry and bathroom, according to the Plumbing and Heating Industries Bureau. The tank, which should be left uninsulated and placed under the ceiling at the warmest point in the basement, kitchen or utility room, will have the effect of bringing the water to room temperature before it enters the water heater.



DESIGNATION NO. EM-ALTS

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As a timely and effective addition to its 4-Square Building Services, Weyerhaeuser offers 3 new designs of farm homes, including blueprints and condensed material lists. Agricultural extension specialists, architects and engineers collaborated in designing these homes. They have provided modern kitchens, bedrooms, baths, a high degree of privacy . . . plus that modern essential of farm homes . . . the service room . . . the buffer between the kitchen and the farm yard.

Advertised in state farm papers from coast to coast, 4-Square farm homes have stimulated tremendous interest. Thousands of requests for details have been received from farm families.

With specially designed farm homes, Weyerhaeuser is helping builders serve the profitable farm market. See your 4-Square Lumber Dealer for complete details.

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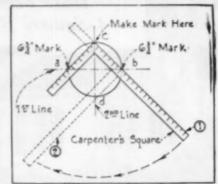
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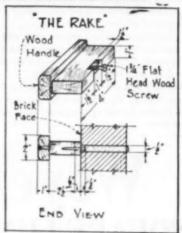
#### TECHNICAL GUIDE for Builders and Craftsmen

How to Locate Center of Disk



The center of a large disk or circle can be quickly found by using a common carpenter's square. The square is laid on the disk so that the reading on each side of square is the same, with the outside corner of square flush with the outsside edge of disk. Draw a straight line from the two points (A and B). Then turn the square and place it in the position shown in Figure 2 and repeat the process. Draw a line between points (C and D). The center of these two lines will be the center of the disk.—Submitted by Herbert E. Fey, New Braunfels, Texas.

#### How to do a Raked Brick Joint



"The Rake" used in conjunction with brick laying when raking out mortar joints in a brick wall, will produce an even and uniform appearance. The slot in the center of rake allows the excess mortar to drop away. If the rake is used extensively it will wear out a screw a day. The size of screw used will depend entirely upon the size of the mortar joint. Rake can be made of 3/4 inch material. Any tough wood will do. To operate, the rake is pushed back and forth until mortar is removed. Helper can operate.—Submitted by C. D. Robb, Frankfort, Ohio.

Gunnison, CHAMPION, HOMES

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**NEW CHAMPION HOMES FOR 1950!** 

QUALITY THAT WINS DEMAND . . . means more profit for youl CHAMPION Homes withstand all climatic conditions because of rugged construction and quality-inspected structural materials. They are available in 3 sizes and 30 designs . . . voried colors . . enough architectural variation for many combinations in large group developments, with no two homes alike!

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203



wood trim when used). Glazing and on-the-job refitting are all completely eliminated. Design permits installation in less than half the time required by ordinary window units. A quality product, competitive with the lowest price window unit on the market.

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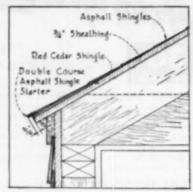
Department 7-ABBO, Cleveland 1, Ohio

Manufacturar of the famous Rusco all-motel, palf-storing combination screen and storm seek.



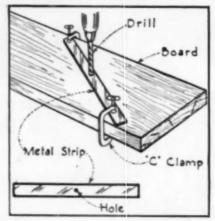
# TECHNICAL GUIDE for Builders and Craftsmen

How to do a Better Roofing Job With Asphalt Strip Shingles



When sheathing has been applied and roof is ready to shingle, start at gutter line with one course of 16 inch Red cedar shingles as indicated in illustration. Project the wood shingle approximately one to one-and-one-half-inches beyond edge of roof sheathing. Start double course of asphalt shingles about 5/16 inch beyond edge of red cedar shingle. This produces a stiff edge which will not break or sag.—Submitted by C. D. Robb, Frankfort, Ohio.

#### How to Prevent Drill From Wandering in Wood



Drill is prevented from wandering in soft grainy wood by applying a strip of metal on the wood as shown in illustration. Metal strip should be about 12 inches long with a hole of the desired diameter drilled through the exact center. Metal strip is secured to the board by a C clamp on either end so that the bored hole in metal will occur directly over the area where hole is to be bored in wood. Drill through the bois already in the metal. The bit will not wander.—Submitted by Herbert E. Fey, New Braunfels, Texas

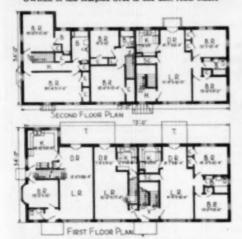
#### Rental Units . . .

(Continued from Page 95)

this year in a neighbourhood development competition sponsored by the National Association of Home Builders, was Solheim's first FHA Title 608 project, and Nebraska's first such project. After completion, Solheim bought out complete interest in the Sweeney-Solheim Corp, which built the apartments, and began devoting full time to architectural work. So popular were Nebraska's first 608's



OWNER of this fourpier lives in one unit, reats others



EACH floor of building has about 2,400 square feet

that adjoining states began to demand his plans, and Solheim, now called the "flying architect," has clients in four states, and goes from job to job in his privately owned airplane.

Among a long list of clients are retired policemen, lawyers, and common laborers, who in many cases, acted as their own builders. One owner four years ago with no previous construction experience built on of the apartments with the architect's supervision, then built another, and is today a successful builder in Lincoln. Small builder clients are particularly interested in rental units designed by the architect, mainly because large investments in materials, labor and time are not required.

#### **Big Kansas City Project**

One of Kansas City's biggest apartment projects, consisting of 666 units, costing \$5,000,000, was started around July 1. The garden type residential development is located on a 60-acre tract of flat wheat land. There will be 600 twobedroom apartments to rent for less than \$75 a month.



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Here is a fast you will be proud to install. Features found in the highest priced fanourgend etrought in stad tubular frame. Vertical models mounted in SEP Bearings, horizontal models with dismond-bored serve bearings—made in 3 sizes and powered with 1/3 H.P. Westinghouse or GE Moster, Pasitively the lowest priced fan of this quality found anywhere. Write for details today.



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With Dismond-Borod Sleeve Seerings



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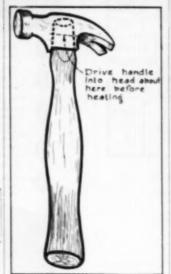
AIR CONDITIONING FAN COMPANY, INC. 1395 destate Avone, N.E. ATLANTA · GEORGIA Ideas for Apprentice Craftsmes

How to Make a Joint for Screens



The illustration above indicates a corner joint for screens and screen doors that has proven satisfactory,— Submitted by H. J. Priehs, Ideal, Ga.

#### How to Replace a Broken Hammer Handle



Buy a small bottle of glycerin. Soak new handle in solution for one week. After removing from solution file handle carefully with rasp so it fits head tightly. Drive to point marked on illustration. Heat hammer in oven until head is hot; then drive handle all the way in and wedge as usual. Hammer will be better than new.—Submitted by J. G. Caldwell, San Mateo, Calif.



For installing asbestos cementtype wallboard use Hassall wallboard drive screws. Specifically designed with spiral threading for better holding power. Supplied with nickelplated finish with either casing or button heads. Advise quantities. Prompt delivery.

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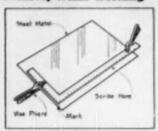
Now you can have the complete facts about finishing floors—right at your fingertips—in this handy new 3-foot chart prepared by American! Helpful in estimating coverage, drying time, selection of materials and other data for all floors. Gives data and recommendations on 15 quality materials for treating floors, including penetrating floor seal finishes, surface floor finishes, floor cleaning and maintenance materials, and rapid drying special finishes. This chart will be sent free to contractors and architects upon request. Also, a complete new A.I.A. file on preparation, finishing and maintaining all types of floors is available to you without obligation.

New—a complete line of American finishes now offered for all kinds of floors! This gives you the correct material—in the finest quality—for each type of floor, and for each desired result. There are American seals, finishes, waxes and cleaners for every requirement—glossy or satin—fast-drying or normal drying—on wood, cork, linoleum, terrazzo, asphalt tile, rubber tile, concrete, plastic, and other types. The right materials for long life and easy maintenance!

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AMERICAN FLOOR SURFACING MACHINE CO.

#### Ideas for Apprentice Craftsmen How to Hold Straightedge Securely While Working

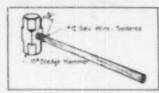


To scribe a line on sheet metal, slip the jaws of two vise pliers over the metal piece and straightedge and lock them into position. The line can be scribed easily without the possibility of straightedge sliding away when hands are used and sheet metal is slippery or greasy.—Herbert E. Fey, New Braunfels, Texas

#### How to Locate Buried Curb Cock or Soil Pipe

When attempting to locate a buried curb cock or soil pipe obtain a hand compass and hold it close to the ground. Get needle of compass in a steady position and pointing north. Move compass around until needle is deflected. This will indicate where the hidden parts are located and then start digging.—Submitted by C. D. Robb, Frankfort, Ohio

#### How to Repair a Sledge Hammer Handle



The next time it becomes necessary to fix a sledge hammer handle try the following method:

Fit the handle and wedge in the usual manner. Twist some 12 gauge were around the handle directly next to the head of hanmer. Let one piece of wire lay against handle and wrap the other end tightly around the handle for a distance of about three inches. Twist together and solder,—J. G. Caldwell, San Mateo, Calif.

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both sides of door

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# Levitt does it again for 1950

"ES-nails are cutting construction costs for us to the tune of \$250,000 a year," says Alfred S. Levitt

Cost-conscious, quality-conscious Levitt & Sons are making important savings on every house by using gypoum siding for sheathing, instead of boarding. ES-nails make these big savings possible.

ES-nails are the first "POSITIVE LOCKING" nail to let you take full advantage of all the savings and construction advantages of non-wood sheathing-lower unit cost, faster application, less waste, real weather

ES-nails are easy to apply. No special tools are required; use a regular shingling hatchet or carpenter's hammer. They are self-locking, attaching wood or asbestos shingles directly to gypsum or insulation sheathing. They can be driven at any convenient point—no need to locate studs.

For more information about the value of ES-nail construction—and the savings it will mean to you, call your supplier, or write: Elastic Stop Nut Corporation of America, 2330 Vauxhall Road, Union, New Jersey.



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Approved by the Red Codes Stengle Burvau, Scattle, Weshnighm, representing scennileterers of Cartigrade Shingles @Trada Mark Reg. U. S. Pat. OR.

#### Stud Welding Speeds Root and Siding Installation

STUD welding, a high-speed, war born technique that saved shipbuilders an estimated 100 stillion manhours in six years, has enabled the contractor installing 18,000 squares of corrugated aluminum roofing and siding at Aluminum Company of America's new Point Comfort Works in Fort Lavaca, Texas, to break all records on his job.



SPECIAL templates are used by members of Jumar-Olman Company's erection crows to mark locations for aluminum-steel studs

H. W. (Bank) Wilson of Jamar-Olman Co., Chicago, turned his stud welding crews loose on one of the big aluminum reduction units at a time, as fast as paint on the steel was dry. Working from swinging scaffolds with one Lincoln generator for every four Nelson stud welding guns, they



STUD is loaded into Nelson welding yan

installed all of the 35,000 composite aluminum and mild steel Rivweld studs for a single building before the first sheet of corrugated material was applied. Stud welding quartets completed installation of all studs required for 500 squares of roofing in six days, while a double quartet handled studding for 900 squares of siding in five days.

Sheeting crews then moved in, with four men in each roofing gang working directly on purlins and three at work on siding, which was erected from tubular steel scaffolding around the outside.

A 7-man team, four stud welders and three sheeters, hit a steady stride of between 2,500 and 4,000 square feet of siding per day, while 8-man roofing teams, four stud welders and four

(Continued on page 212)





Only SUPER.
CEDAS to of
the same uniform high quality standard that
guarantees every
package to contain
BOW Red Reart or
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ALL WIDTHS PUT-UP 40 FT. TO PACKAGE

More home builders are apacifying cedar lined closels today than over- and shown in JUPER-CEDAR in announcing divertised to thouse another and builders. SUPER-CEDAR closel lining is surfaced, because with no weats. Packaged and sealed with the Geo. C. Brown label and guarantee, amone since 1888

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### ADVANCE-DESIGN TRUCKS

# POPULARITY LEADERS Chewrolet trucks are the favorites by fart in every postwar year truck users have bought more

postwor year truck users have bought more Chevrolets than any other make. And that's proof of the owner satisfaction they have earned!

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rolet trucks give you high pulling power over a wide range of usable road speeds . . . cut down total trip time with high acceleration on the straightaway.

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more goods more miles—at lower cost per ton mile! You enjoy real savings on opereting and repair costs.

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Chevrolet Advance-Design trucks have everything it takes—and plenty to spare. Rugged construction to withstand the wear and tear. Handling ease and comfort to lighten the load of a day's work. And more power than ever! Two great Valve-in-Head engines—the Loadmaster 105 h.p. and the Thriftmaster 92 h.p.—make these the most powerful trucks Chevrolet has built! Yes, these new jobs bring you peak value—and at a low price. They cost surprisingly little to buy, to run and maintain. That's why Chevrolet trucks outsell them all!

CHEVROLET MOTOR DIVISION, General Maior: Corporation, DETROIT 1, MICH.

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TWO GREAT VALVE-IN-HEAD ENGINES: the New 105-h.p. Load-moster and the Improved 92-h.p. Thriftmoster—to give you greater power per gallon, lower cost per load a THE NEW POWER-JET CARBURETOR: smoother, quicker acceleration response a DIA-PHRAGM SPRING CLUTCH for easy action engagement a SYNCHROMESH TRANSMISSIONS for fast, smooth shifting a HYPOID REAR AXLES—5 times more durable than spirel bevel type a DOUBLE-ARTICULATED BRAKES—for complete driver central a WIDE-BASE WHEELS for increased tire mileage a ADVANCE-DESIGN STYLING with the "Cab that Broothas" a BALL-TYPE STEERING for easier handling a UNIT-DESIGN BODIES—precision built.





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folDoor is the best looking door closure you ever saw. Folds into beautiful pleats into an unbelievably small space, can be operated by a child . . . and open or closed, retains its beautiful pleated lines to add charm to any room.

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Excellent Installing Distributor Territory Still Open. Write for Information.



HOLCOMB & HOKE MFG. CO., INC.

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#### Stud Welding . . .

(Continued from page 210)

sheeters, completed between 4,000 and 6,000 square feet every day.

"On many occasions, working under ideal conditions, one roofing crew installed better than 5,000 square feet, and the peak day on siding was considerably better than 4,000 square feet," Mr. Wilson said.

We used special templates, 20 to 24 feet in length, which were clamped to the steel struts to speed the layout



STUDS for siding material are installed before erection of corrugated aluminum



AFTER installation of study, cluminu colored asphaltic-base paint is applied around study for long-term protection



CORRUGATED aluminum sheet is positioned over stude, stud extensions are drawn through sheet, burrs or washers are applied, and rivet set and hammer used

(Continued on page 214)

### ROBOT OPERATORS

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You can make building dollars go further—to provide more value—if you use Masonite Hardboards. These smooth, rigid grainless panels, made from exploded wood fibers, come in 19 types and thicknesses—each with special uses and advantages. Here's why they provide more house per dollar:

HOW to Provide Crackproof Walls. These super-smooth living room walls will never crack, dear or scuff! They'll hold paint or other finishes indefinitely because they are made of Masonite 34" Panelwood\*. The cabinets have doors of Leatherwood—a Masonite Hardboard with a surface that simulates Spanish-grain leather.



HOW to Multiply Kitchen Efficiency. No need to stint on kitchen cabinets, even in the lowest cost home. These cabinets are built with economical Masonite Hardboards, ends and backs of ½" Standard Presdwood—cabinet doors and counter tops are of Tempered Presdwoodfor extra wear resistance. Walls are Temprtile.

There are 19 Types and Thicknesses of Masonite Hardboards for 1000 uses HOW to Specify a Luxury Bathroom or Low Coet. In this bathroom, Masonite Tempetile\* was used for the lower walls and Masonite 1/4" Tempered Presdwood\* above. Masonite Temperile is tempered for extra durability and moisture resistance score lines are pressed in the surface to form a 4" tile pattern. The built-in cabinets are made with 3/4" Tempered Presdwood.

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Get al	the feets	sbout /	Mason	ite Hur	oboards	-Mail t	he coupe
111 W	TE CORPORA of Weshingto 2. (Wineis		, Daget,	AB-8			
Gentle	ment :						
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### 7. DISTINCTIVE TONE

The melodious, cathedral tones of Rittenhouse Door Chimes make them the finest money can buy.

### 2. STYLED FOR CUSTOMER ACCEPTANCE

Styled with grace-of-line beauty to suit any home interior.

### 3. TROUBLE-FREE PERFORMANCE

Engineering design, materials, and expert craftsmanship in Rittenhouse Door Chimes enable you to spend your time selling—not servicing.

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There's a model Rittenhouse Door Chime for every type home from cuttage to mansion.

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A complete line. Every model is crammed with big value.

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THE RITTENHOUSE CO., INC.

#### Hotpoint Completes Installations For Commorcial Cooking Equip-

Hotpoint, Inc. has completed the tooling and machine installations of its 500,000 square foot electric commercial cooking equipment plant at Chicago Heights, Ill., and is producing a new line of heavy duty ranges and bake ovens, James J. Nance, president, recently announced. The plant was acquired shortly after the



HOTPOINT'S new commercial cooking

war as a part of the company's \$35 million Chicago area postwar expansion of facilities for the manufacture of complete kitchens and laundries for home installation and the production of institutional equipment. The

The first production from the Chicago Heights plant was planned to coincide with expansions of electric utilities which are now reaching completion in many parts of the country and bringing these companies into the selling and promotion of commercial equipment for the first time since the war.

#### Stud Welding . . .

(Continued from page 212)

work," Wilson said. "We found that since the variation in the corrugated sheets (10 feet high by 33 inches wide) never exceeded \(\frac{1}{2}\)-inch, we could install all the studs before applying any sheeting with perfect safety."

Operation of four stud welding guns with one welding generator was accomplished with leads of 00 cable, which was held to less than 250 feet. While simultaneous operation of any two or more guns at the same instant would obviously result in an incomplete weld, experience showed that this never happened more than once or twice a day, so that the loss of time and materials was negligible compared to the savings on equipment.

"By having 50 per cent more stud welding equipment available than was required for actual operation," Wilson explained, "the job was carried through without any delays or time loss for equipment maintenance."

#### WEATHER - BLOC

SINGLE UNIT VENTILATOR for GLASS BLOCK

in HOMES, STORES, OFFICES



ENSEME PACE



OUTSIDE FACE Permanent glass diffuser et at an angle.

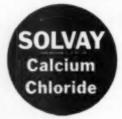
Weather-like takes no langer to install than single glass blacks—singly set in place of glass blochs. No coulting or special preparation is required. For installation in completed construction, break out the glass block where ventilation is required and replace with Weather-like. All parts can be cleaned or replaced from incide the room.

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• Stain-Proof • Resists
Abrasion • Easy to Lay •
Money-Saving.

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Address
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 You buy Higgins Hardwood Blocks by NET measurement—each one precision cut to 9" x 9" face. No dimensional loss allowance to make for tongues and grooves.

 You install Higgins Blocks quickly and easily over steel, concrets, or any type subflooring. Can be laid in adhesive—or blind natled.

 No "lefts" or "rights" to slow you down; pick any Higgins block at random, and it fits. No waste by splitting when blind natiled; tongues are integral part of block, cross-grain-reinforced.

4. Blocks come with final luxury finish—no onthe-job finishing. Housewives like the easy, lowcost maintenance of a Higgins floor. These are just a few of the many profit features.

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BLOCK FLOORING

# Fred C. Walters knows what they want, and it takes ADEQUATE WIRING



"The occupants of the Walters Apachments are high in their praise of the houselfe-free apacetion of their electrical squigment—thanks to cortified Advegate Wiring. Adequate Wiring means a lat to me in forms of remaint satisfection and in vestment protection," says Faul C. Walters, premisent University State C. Walters, premisent Circumsti buildies.

Millions spent in national advertising have convinced the American public that Electrical Living is for them.

Make their conviction your selling point! You must wire anyway. Adequate Wiring is one of the least costly "plus values" you can add to attract tenants or buyers.

With Adequate Wiring you get all these advantages:

Faster, better loans Promotional helps Better occupancy Easier sales Reputation for quality

For information, or help in applying this selling tool to your operation,

Just use the handy coupon.



Selling's Loss Tiring With Adequate Wiring

National Adequate Wiring Bureau DEPARTMENT AS

155 East 44th Street, New York 17, N. Y. Please put me in touch with the nearest local Adequate Wiring Bureau. I'm interested in giving my houses more sales appeal.

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....STATE.....

#### Home Design Contest Winner Inspects Model Of Kitchen



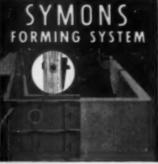
JUST before sailing for Europe, Elisabeth Graham Bell stops in New York to pass final inspection on a miniature model of a General Electric kitchen in the firstprize-winning home she designed for the recent contest for woman architectural atudents sponsored by the American Bullder and the National Association of Home Builders. Mins Beil. of Carnegie, Pa., a student of Cornegie Institute of Technology, is using her prize money to study European architecture this summer. Ganeral Electric Co. distributors across the country are working with local builders to construct and display her modern fiveroom house this full

### Study Marketing Costs Of Building Materials

A study of the marketing of building materials will be made by the University of Pennsylvania under a research contract with the Housing and Home Finance Agency, Raymond M. Foley. HHFA administrator has announced. The project is part of the economic and technical research program authorized under the Housing Act of 1949.

The study will be carried out in the Philadelphia metropolitan area and in one or more other cities. Dr. Richard U. Ratcliff, director of HHFA's Division of Housing Research, said cooperation of builders, lumber dealers and manufacturers will be sought by the University. In connection with the study, information on prices, margins, dealers' expenses and other pertinent matters will be collected and analyzed as a part of the long-range program designed to reduce bousing costs.

NATIONAL HOME WEEK September 10 to 17



#### SAVES TIME

heat shows how Symans System coves time in erecting and stripping forms. Bott passes through 2 x 4 stude and file leap. Wedge secures the assembly, this simple device cust farming time 50%.

#### SAVES LABOR

Marry G. Debring, Ference, Taylor Brothers, South Band, Ind., states: "Seven men set up the forms for a 24" x 27" (supplicition in one boar and blesse minutes."

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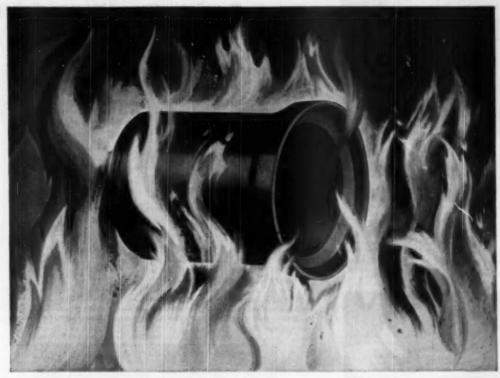


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# CLAY PIPE...fused by fire for EVERLASTING service

VITRIFICATION — the heat bonding process that makes Clay Pipe tough, corrosion-proof, and everlasting — takes place at temperatures exceeding 2000° F. Under carefully controlled firing, the minute particles of rock that have been formed into Clay through centuries of nature's purification are fused permanently together. Vitrified Clay Pipe needs no coating to protect it from the corrosive action of sewage, ground waters, soils, or industrial waste. It's chemically inert, completely safe from the acid attack that destroys so many mattrials. No other pipe offers all the necessary advantages of Vitrified Clay Pipe. That's why

cost-conscious builders rely on it — to keep profits up and protect their reputations. Clay Pipe is low in original cost; there's no pricepremium on its outstanding quality. It can be installed quickly — and it lasts forever.

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STANDARD-STRENGTH CLAY PIPE



CHANNEL CLAY PIPE



CLAY PIPE



C-300-0A



### Good Plasterers Know...

. . . that to do their work best they must have a finishing lime that's easy to work, smooth, and far spreading.



That's why the plasterer's hawk, above, carries Hawk Spread (or its twin brand: Ohio White Finish), wherever quality plaster is demanded.

You too may rely on Ohio Hydrate's brands of finishing lime, scientifically processed from hand picked, kiln burned rock, always of uniform good quality, 9916% pure.

The OHIO HYDRATE & SUPPLY Co.



### "Recovering" or Saving Conditioned Air

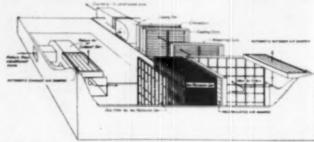
By 9. E. Ore

W. B. Conner Engineering Corporation

If OW OFTEN have you entered an air conditioned place and been met by a blast of cool, yet dank, musty, smell-laden air, an odor characterized by air conditioning men as system "halitosis"? The reason is simply poor ventilation. Regardless of how carefully air has been heated or cooled.

humidified or dehumidified, its "quality" or freshness will suffer unless adequate ventilation is provided. The purchaser of an air conditioning system all too often either fails to realize the importance of this element or is unwilling to pay for it.

Good ventilation may be described



FLOW diagram showing relation of air recovery unit to typical air circulating system. In this application on air recovery unit has been installed to purify conditioned yet address air in order that it may be re-used thus saving the conditioning energy that has been expended upon it





extends window to permit cleaning from inside. Every VENTO Steel Casement Window comes prepared for the application of storm sash and acrees. Many Sixes and Shapes Available! · Add beauty and distinction to any home by using **VENTO Steel Case** ment Windows in attractive design variations Send Coupe TODAY! VENTO STEEL PRODUCTS CO. 247 Colorado Ave. Buffulo 15, N. Y and the data on Veneo Seed ushing supply

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as the amount of fresh air required to keep an interior atmosphere reasonably fresh and pleasant. Although many people think that ventilation air is needed for oxygen its real purpose is odor dilution. Research has shown that air that inevitably infiltrates any above-ground structure, that is, seeps in through doors, windows and walls, contains more than enough oxygen even under the most crowded con-

If ventilation air is obtained from outdoors it must, naturally, displace the same volume of indoor air. When outdoor temperatures are moderate it makes no difference how often the air is changed. But during the cooling and heating season the displaced air carries with it the money that has been spent on it in the form of conditioning energy.

In many air conditioning installations the ventilation "load" may be as high as 40 to 60 per cent of the system's capacity. For example, in a system with a fan volume or capacity of 10,000 cubic feet of air per minute serving a space of 20,000 cubic feet size, the odor generation has been measured or estimated to be about three parts per million parts of air, or a small fraction of a cubic foot per minute. Yet 4,000 CFM of fresh air is required for dilution effect.

How expensive ventilation can become is apparent when it is realized that in the Temperate Zone 10 tons of installed refrigeration capacity (equivalent to the cooling effect of melting 10 tons of ice per day) and 320,000 B.T.U. of boiler and radiation capacity are required to cool and heat 4,000 cubic feet per minute of outdoor air. In terms of cost an all year conditioning plant to handle this air would require an investment of approximately \$3,000 and about \$500 per year to operate. Ventilation in such circumstances can be expensive!

But ventilation air does not have to be new outdoor air. As its purpose is to dilute odors its only requisite is that it be fresh or odor-free. This, plus the fact that odors comprise such an infinitesimal part of the atmosphere, has been the basis for the develociment of virtually a new branch of air conditioning, air "recovery" or reclaiming indoor air for recirculation and re-use by extracting the odors it contains. Air recovery units are essentially peacetime conversions of the gas mask. Air is drawn through activated carbon, which, by a process of selection, purges it of extraneous gases and vapors. The technical name for the process is adsorption. When airborne impurities strike the surfaces of activated carbon they condense and

(Continued on page 220)

# STEEL TAPES are best for the facts prove it!

FIRST AND FOREMOST, Boe Steel Tapes are extremely easy to read . . and they ge right on being clearly legible year after year. The black your after year. Ine used markings are permanently etched into the steel which is then nickelplated to provide a lustrous contracting background. A transparent plastic overceating is added for top-most wear resistance—and

durability.



Pictured here is the Ros Steel Tape #302 with polished chromoplated, sturdy weided steel case. Other Ros models feature cases in handsewn leather, and in metal-banded leather and leatherette. They have a reinforced rust resis-tant liner, precision winding drum, flush-folding handle, press button center and roller insuthpiece. All are available with 25, 50, 75 or 100-foot tapes; feet in inches and eighths, or in tenths and bundredths.

Get Roe Steel Tapes from rrite us giving his name and



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### ASK FOR PROOF THAT REZNOR GETS BUSINESS FOR YOU!

• Shout "... more business" just once, and Reanor is on the job with its highly salable, profitable 1950 heaters and plenty of selling helps. Sold every day by thousands of dealers for stores, offices and industrial plants. Write now for full information on Reanor heaters—the world's best seller.

Gas Unit Heaters Since 1888

REZNOR MANUFACTURING CO.

#### Conditioned Air . . .

(Continued from page 219)

cling stubbornly. What gives activated carbon its adsorptive efficiency is its enormous surface area. The submicroscopic pores or crevices in a cubic inch of activated carbon are so numerous that their total surface area has been estimated to be approximately equivalent to five acres.

Hence by simply relieving indoor air of its tiny burden of impurities, without otherwise changing it in the slightest, such air and its heating and cooling effect is conserved. As less new unconditioned air is needed the less will be the conditioning capacity required. In other words, instead of



TYPICAL consister installation. Side of duct or casing has been removed to show a common method of installing air recovery canisters and direction of air flow

reaching outdoors for a constantly renewed supply of air, the same effect is obtained by converting indoor air back to its original state of freshness.

The savings that can be made by using "recovered" air in lieu of outside air are in direct ratio to the need for ventilation. Where occupancy and odor generation are low in comparison to the size of the space, as in a large store, there is nothing to be gained by air conservation. The new air necessary to offset infiltration will more than likely be sufficient to perform the extra duty of dilution. It is in the small, crowded places like small restaurants, bars, grills, nightclubs, etc., that this development is of the most value.

Savings in capacity of equipment can be made only, of course, when the recovery unit is made part of the original installation. Obviously once the system is in its size can't very well be reduced. However, it is often possible to expand the capacity of an existing system. For instance, where it is desired to heat or cool an additional room or area and capacity is lacking, the necessary heated or cooled air can often be obtained by purifying indoor air that would otherwise be exhausted to the outdoors. Again, where systems are in use, upkeep, that is, fuel, cur-

(Continued on page 222)

# 3 DOORS to Greater Profits

CAPITOL PRODUCTS now offers you 3 fine garage doors that enable you to reach every market — to help you sell profitably, confidently and competitively. These doors give:

- Complete Pretection
- . Harmonious Beauty
- · Greater Economy
- · Easier Installation
- . Fingertip Operation
- . Longer Life

### FLUSH PANEL



Beauty and utility plus Taper Seal. Panels electronically bonded (not nailed) to frame — insures rigidity — prevents warping — stronger, lasts longer. Sizes: 8' x 7'; 8' x 7'6"; 8' x 8'; 9' x 7'. Thickness: 1%".



### TAPER SEAL

The door for your average customer. Beauty with long, trouble-free life at reasonable cost—means faster sales for you—greater profits. Sizes; 8' x 6'6"; 8' x 7'; 8' x 7'6"; 8' x 8'; 9' x 7'; 9' x 8'; 10' x 7'; 10' x 8'; 10' x 9'; and 10' x 10'.

### EASY LIFT



An attractive, competitively priced door with great appeal. "Timber Tox" treated — termite and rot proofed. Balanced, feather touch operation—long life. Sizes 8' x 6'6" and 8' x 7".

See your lumber dealer or Write us for prices!

### CAPITOL PRODUCTS

P.O. Box 1240 Springfield, Illinois

### What CUPRINOL DOES FOR LUMBER

### Means Better Results for You!



is the original naphthenate wood preservative of over 40 years successful use in many parts of the world for stopping wood rot and insect borers.

NOW... after several years of tests with added ingredients Cuprinal provides water-repellency to directly benefit every user of wood for building construction. CUPRINOL . . . is most practical for on-thejob application. It is harmless to the skin, and can be used like paint without rubber gloves, goggles or protective clothing. Applied by brush, spray or dip, it penetrates quickly and dries within a few hours.

### FOR PROTECTION AGAINST

1.
WARPING, SWELLING
AND
SHRINKING OF
SEASONED WOOD

2. GRAIN RAISING

3.
ROT AND TERMITES

4. MILDEW

5.
DISCOLORATION

1. Windows that stick, doors that warp—too often the builder is blamed for poor workmanship or inferior material when one coat of Cuprinol would have prevented complaints. With untreated mill work every window, door, frame and sash after fitting should be given a coat of Cuprinol on every side before painting. And, even with pre-treated mill work, when a surface is planed for fitting it can lose its original protection. Treat it with Cuprinol.

For example, an exterior door is exposed on one side to warm, dry room temperature, on the other side to out-of-doors dampness and rain. Cuprinol helps stabilize the moisture content of the wood to prevent warping, swelling and shrinking.

- 2. Cupboards and panels of plywood, even with two or three coats of paint, frequently show the grain, for the fibre and grain of the wood absorb liquids to different degrees. A coat of Cuprinol before painting will reduce this difference in absorption and prevent the unsightly raising of the grain.
- Rot and termites are frequent causes for repairs and replacements of lumber today. In all such repairs the owner, who now appreciates the cost of rot or termites, will welcome your use of Cuprinol in treating the new lumber.
- 4. In many places mildew forms as a result of dampness and dead air. This is not so commonplace in home construction as in storage rooms, laundries, and edifices such as churches and meeting halls that are closed much of the time. Cuprinol treatment, either beneath or over paint, has been found most effective for preventing the formation and accumulation of mildew.
- 5. The combination of water-repellency and rot-proofing with Cuprinol reduces materially the weathering and discolaration of wood, as for example in ranch type houses where it is desired to have the wood show the grain and original color.

Cuprinol is sold by lumber dealers. See Sweet's File for Builders 2B. 4, or write us for information on types of Cuprinol for specific uses.

CUPRINOL Division, Darworth Incorporated
56 Maple Street
Simsbury, Conn.

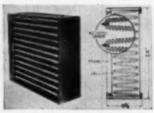


#### Conditioned Air . . .

(Continued from page 220)

rent, water, etc., consumption, can often be reduced by substituting purified air for outdoor air.

Although relatively recent, this development is already well established. Several thousand installations are now in use. Recovery units are standard equipment in almost all of the new railroad passenger cars. Due to weight and space restrictions the condition-



CUTAWAY air recovery conister. This view shows how air passes through a uniformly thick hed of activated carbon. Each cunister is raied at 25 cubic feet of air per minute.

ing equipment of each car can only handle a certain percentage of new outdoor air without losing control of temperature. By purifying the air that must be recirculated within the car air quality is improved almost threefold, a welcome advance in passenger comfort.

The Fifth Avenue Brass Rail Restaurant in New York is as much concerned with its atmosphere as with food quality and service. With accommodations for 853 persons, each patron receives fresh, odor-free air at the rate of 20 cubic feet per minute. However, only 7,000 cubic feet per minute is brought in from the outdoors, the remaining 10,000 CFM is reclaimed indoor air. Excellent atmospheric conditions are maintained yet a considerable saving in cost and operation was made. The outdoor air supply could be cut still further were it not for the fact that a certain volume of new air is needed to dilute tobacco smoke haze. Activated carbon soaks up the irritant gases in tobacco smoke but the visible haze, being a solid, is not removed. As an alternative to outside air for this purpose dust filters with the efficiency of the electrostatic type could be used.

The Hotel Sherman in Chicago lacked the space in which to locate a conditioning plant for its new "Well of the Sea" seafood restaurant and the central system lacked the capacity to handle the additional load. However, by taking "used" air from other areas and putting it through air recovery cells the problem was readily solved.

# BUILDERS!

### CONTRACTORS!

Have the advantage of perspective drawings and floor plans to show future homebuilders. Give your clients the opportunity to choose from these latest design plan books. Plans utilize builders newest cost cutting and latest construction methods, Complete working blueprints of 200 FHA approved homes are available.

Wide variety of contemporary and traditional designs styled for comfart, beauty and convenience. Includes starter hames, four- to ten-room home sizes—in ranch styles, modern design, Cape Cod and duples plans.

Order 2 books for only \$2.00 (one book for frame and one for block masonary construction). Then when you order your first set of working blueprins—4 blueprints included in set—\$25.00 for frame construction, \$35.00 for block construction—your original \$2.00 investment will be credited to your order. Order books today—let these amazing plan books sell home contracts for you.

HOME BUILDING PLAN SERVICE 2454-Z N.E. Sandy Boulevard PORTLAND 17. OREGON

### 'Avenue of Homes' Is Chicago Fair Feature

NE OF the main attractions at the Chicago Fair of 1950, which opened June 25 is the "Avenue of Homes" exhibit, featuring eight homes sponsored by builders, trade groups and shelter magazines.

The official theme of Chicago's latest major exposition is the dramatization of the nation's achievements in science, industry, commerce and agriculture. According to Crosby Kelly, executive manager of the Fair, the American home can be singled out, much as any other feature, of what the people of the United States have accomplished.

The eight exhibit homes are classified in four architectural categories—Cape Cod, Colonial, Ranch-type and Modern. Three are of frame construction and other ma-



OHE of eight homes in Chicago Fair exhibit is the "Hometown Runch House" frame duplex sponsored by the J. E. Merrion Co.

terials include brick, concrete, stone and gypsum products. Floor area is from 800 to 2,000 square feet. All are completely furnished and decorated. All sites are completely landscaped.

The two homes classified as "futuristic" are partially constructed of materials and furnished with appliances not now in mass production but proved practicable in research laboratories.

The sponsors are: the J. E. Merrion Co., Chicago builders; Portland Cement Association, Mason Contractors Association of Cook County and the Structural Clay Products Institute, Better Homes and Gardens magazine, Living magazine, Parents' magazine, Popular Home magazine and the Chicago Plastering Institute.

In charge of the exhibit is Grover McDonald, Dixon, Ill. A veteran home show developer, he has directed 150 similar projects in various parts of the country. Assisting him is Joseph Sheehan of Philadelphia.

#### **New NRLDA Public Relations Pumphiets**

A series of three new public relations pamphlets have been prepared by the National Retail Lumber Dealers Association for distribution by members to the public. The titles are: "Taxes Can Come Down," which states that taxes constitute one-third of the cost of a new home; "No Charge for the Extras," an account of the services rendered the public by retail lumber dealers; and "The Truth about Housing," which tells of the accomplishments of the private builder and answers charges made against the industry. There is a small charge for the pamphlets which are distributed by the National Building Material Dealers Service Corp., 302 Ring Building, Washington 6, D. C.



### \* Bonderized after Forming

- · Baked White Enamel Finish
- First Quality Plate Glass Mirror
- Full Length Piano Type Hinge
- · Snap-in (no screws) Electrical Inspection Plate
- Stainless Steel Mirror Frame
- · Convenience Outlet for Electric Razor, etc.
- Bar-Type Door Stop
- Rasor Blade Disposal Slot
- · Underwriters' Laboratories Inspection Label

Write for Catalog on Lewson Bathroom Cabinets, Lavatory Mirrors and Chrome Accessories . . .

THE F. H. LAWSON CO.

WORLD'S LARGEST BUILDERS OF BATHROOM CABINETS





### of the BARCOL OVERdoor

We have spoken of the Barcol OVERdoor as "the choice of buyers who investigate," because it is "an improved overhead door" that thrives on comparison. The use of the Barcol OVERdoor is not limited to residence garages - its extra quality, strength, durability, and minimum maintenance make it ideal for commercial and service garages, institutional and municipal buildings, industrial plants, and for a number of interior as well as exterior applications. Your Barcol representative is well-equipped, by experience and factory training, to give you full information and sould recommendations on any use you may contemplate.

### Two Useful Versions . . . Model 31 and Model 50

Without going into mechanical detail, we can classify these two general types as Model 31 for light duty and Model 50 for heavy duty. In addition, you have a wide range of sizes both stock and special, numerous accessories and special arrangements for added convenience or protection, and regular or special design to suit your taste in appearance. Consult your Barcol representative and let him give you the full story. (Look in the Yellow Pages of your telephone directory for his name.)

SALES AND SERVICE REPRESENTATIVES IN PRINCIPAL CITIES

BARBER-COLMAN COMPANY

The Only Manufacturer of All Three ...

GARAGE DOORS ELECTRIC OPERATORS

RADIO CONTROL

### **Produce Combination** Windows By Belt Line Methods

Increasing use of combination storm and screen windows has resulted in the adoption of modern production line methods by a number of manufac-

The Alumatic Corporation of America, manufacturer of aluminum combination windows, typifies the in-



**BEFORE** extrusions are fabricated into doors and windows (top) they are run through rolling machines which shape them to exact telerances. Below: Batteries of 5 HP saws with 16-inch blades cut and miter the long extrusions into sections needed size

dustry's progress in the methods used in their Milwaukee plant. Alumatic also operates a branch factory at Windsor, Ont.

Alumatic windows are custom-fitted and installed to the size needs of the





SPRING weatherstripping units are inserted in window frame sections (above). Storm and screen doors (below) are equared before assembly by use of jig arrampement

(Continued on page 225)

AMERICAN BUILDER

particular home. Another aluminum combination window manufactured by the firm is the "Alarum." Other products fabricated by the firm are



IN CONTRAST to the windows which are shipped "knocked down." combination doors are shipped set up in the large boxes shown above. Below: At dealer's shop combination windows are assembled from proper sizes. Only simple tools are needed for these operations, including the making of screen panels

aluminum combination doors, aluminum screen door and house screens.

The accompanying photographs illustrate some of the advanced techniques of the Alumatic Milwaukee facilities now being employed by the industry.

### **New Aluminum Siding** Marketed by Alsco

The marketing of a new aluminum siding on a national scale by Alsco, Inc., makers of Alsco aluminum convertible storm windows and doors, has been announced by the firm's president, Harry Sugar. Ben Sugar, vice president of Alsco, heads the siding division, and is now appointing dealers and distributors throughout the country.

Most important improvement in the new product, the manufacturers said, is its exclusive Weather-Lock. Alsco is an 8-inch weather-lock lapped siding. Other features are a self-scaling all-aluminum corner and "hidden clip" aluminum nailing. In installation, metal clips are used to hold each panel in place, the clips then being nailed to wall sheathing. The nails and clip are then covered by the next planel.

Painting and enameling of the sid-(Continued on page 226)



#### LOOK FOR THIS MARK OF QUALITY



### Touch a Button... to Open the Door

The magic of radio brings you this modern convenience! With BARBER-COLMAN RADIO CONTROL, you can open or close your garage doors by simply touching a button in your car. The car can be moving, or standing still, anywhere (and in any position) within approximately 75 feet of the garage. The equipment operates on FCC-assigned frequencies, hence can use maximum power in the transmitter and a minimum of tubes in the receiver. Barber-Colman, a pioneer in the radio control field, is a reliable source for practical equipment, with over 20 years of experience in this specialized field. Ask your Barcol representative for a working demonstration of the amaxing Radio Control.



### ELECTRIC DOOR OPERATORS

Soundly engineered and ruggedly built for dependable and durable performance—Barcol Electric Door Operators are made in a variety of models for swinging, sliding, overhead, and steel rolling doors, and for sliding gates. They can be actuated by any of various switches, by electric eye, or by Radio Control. Get a demonstration!

SALES AND SERVICE REPRESENTATIVES IN PRINCIPAL CITIES

BARBER-COLMAN COMPANY

The Only Manufacturer of All Three...

GARAGE DOORS ELECTRIC OPERATORS RADIO CONTROL

### Choose

the exact instrument you need from these three LOW PRICE MODELS



Finest 12° Dumpy Level evailable anywheregives you more features you want, more accuracy, more durability at loss money than any other instrument. It has dost and dirt-free internal focusing and has counted optics for clearer distruction-free, sharper images.



Here's the standard convertible level for the country for the past 50 years? No other instrument has the invigations and acceptance of given to the David White Carriagie Improved Convertible Ireel. Now it's available to you just the country of th



Citoxia the exist instrument you need from these there. Compare their outstanding features, their preview, et inagged construction, their accuract and their price with all others, their post buy as David White. For complete information on any one of all three of these instruments, instead our rearred desley — or exite direct to David White Co. 311 West Court Street, Milwanker 3, Wincinnin.



We offer complate prompt repair service on all makes of infereds, transite, theodolites, etc.

#### Aluminum Siding . . .

(Continued from page 225)

ing are done by the "Ankorweld" process. The panels are painted before being formed, with each panel receiving a rigid test for performance of missis.

The Ankorweld process includes an exclusive method of pre-treating aluminum to provide millions of tiny anchors for holding the special examel paint. Alsco panels are treated on both sides with this process after which the specially developed enamel is applied, and baked thoroughly in temperature-controlled ovens. The paint will not chip, crack, peel or fade, according to the manufacturers, and the Ankorweld "bath" also prevents pitting and oxidation. Cleaning can be done with an ordinary garden hose.

The panels are formed to provide maximum rigidity and require backer strips only at the joints, windows, and doors. They can be installed quickly over clapboard, stucco, brick, shingles or other sidings.

The marketing of the new Alsco siding is being accompanied by a heavy newspaper advertising campaign. A complete merchandising and advertising package is available which includes dealer mats, door hangers, four-color brochures and a four-color presentation book for Alsco dealer salesmen. Theme of the book, ads and printed material is "The Freedom House—lifetime freedom from Repairs, Paint, Drafts, Cold, Heat, Fire, Termites!"

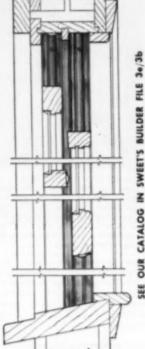
### Porcelain Enamel Cabinets Gain in Bath, Laundry Use

Although primarily designed for kitchens, the use of porcelain enameltopped utility cabinets to provide storage and table-top working space in bathrooms and laundries is on the increase.

Qualities of this type of cabinet which make it adaptable for these additional uses are cleanability, resistance to heat, shock, abrasion, and corrosion, and ability to take continuous hard service.

Porcelain enamel was found to be unaffected by a number of rigid tests, recently conducted by an impartial commercial laboratory. These included use as cutting boards for slicing bread; exposure to regular household iron, at normal pressing temperature, which was placed on porcelain enamel for periods of 2½ minutes, and dragged back and forth across the material's surface; and the dropping of a standard can opener point-first against the material nine times.





#### COMPLETE CARTON PACKAGED

- 1st. Low cost of \$3.50 per window, any size
- 2nd, Easy to apply
- 3rd. Velvet smooth in operation
- 4th. Absolutely weatherproof
- 5th. Sales helps and displays
- 6th. Nationally advertised
- 7th. Wide consumer acceptance
- 8th. Shipments at once
- 9th. See your lumber dealer today

THE WEATHERPROOF PRODUCTS CORP.

329 Westport Road lefterson 3133 Kansaa City 2, Missouri

### Prelabricated Showers Add Selling Appeal, Cut Installation Costs

It is a recognized fact that shower baths have a tremendous attraction for home buyers.

Long preferred by men over other methods of bathing, they are now becoming preferred by women as well. To operative builders, important features of prefabricated shower cabinets are those that provide great utility and value while saving construction dollars.

Prefabricated cabinets have floors that are precast as separate, independent units. Walls are joined to these cement floors by means of a leakproof bond, and the walls themselves have leakproof corner joints. The result is a cabinet that can withstand the strain of shifting or settling without any ill effects. Builders confronted with small or odd-shaped rooms will find that metal cabinets offer a complete range of types and sizes from which to choose. There are three basic classifications: 1-The built-in cabinets 2-the corner model, and 3-the free-standing, square cabinet.

The built-in type cabinet, as nowproduced, is designed so that it canbe recessed into the wall and plastered clear up to the door frame. This is an advantage where bathrooms must necessarily be small, since it provides luxury and utility without detracting from available floor space The cabinet itself can extend into a neighbor-



CORNER shower stells occupy minimum floor area in the buthroom. This model is made by Fiat Metal Manufacturing Co.

ing utility room, closet, or any large room that shares a wall with the bathroom.

Corner type cabinets, constructed either of metal alone, or a combination of metal and glass, have an entirely different application. They are especially useful where showers cannot be recessed into the wall and

(Continued on page 228)



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with a portable
KOHLER
ELECTRIC PLANT"

This compact, low-cost, portable Kohler Electric Plant saves trouble and expense of arranging power hook-ups. Helps finish jobe faster at lower cost. Operates electric drills, saws, pipe threaders, cutters—tools having universal (AC-DC) motors. Weighs only 75 lbs. Has a rating of 1500 watts maximum for intermittent duty. Convenient carrying handle. Powered by quick-starting, 4-cycle, aircooled Kohler engine. Complete with 1/2 gallon fuel tank. Quickly pays for itself. Many other sizes available, Write now for folder K-13. Kohler Co., Kohler, Wisconsin. Established 1873.

Model 1.8MS, 1.500 overs, 115 nels DC. Manual control. Locath 15°, width 14°, height 12°.

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#### Confer on Specifications For Aluminum Nails

Data required in fixing specification for non-corrosive aluminum nails that may be flown in government planes for use in installations in Alaska and other points were submitted at a recent conference of government officials and representatives of the aluminum industry at the Nichola Wire and Aluminum Co. plant in Davenport, Iowa.

Attending the conference were O. M. Mader, Pittsburgh, research engineer for the Aluminum Company of America; Charles Walte, manager of the Farm Development Division, Reynolds Metal Co., Louisville, Ky.; and John A. Scholten, research engineer for Forest Products Laboratory, Madison, Wis. Forest Products Laboratory is operated by the U.S. Department of Agriculture.

Also taking part in the conference were Frank R. Nichols, president, and Frank Leahey, executive vice president, of Nichols Wire and Aluminum

Data presented will be assembled and classified, after which it will be submitted to aluminum producers and other manufacturers of aluminum nails for their approval. Final certification of the specifications will be made by the Specifications Board in Washington.

#### **Protabricated Showers**

(Continued from page 227)

where there is not sufficient depth in the bathroom to accommodate a square type shower. Back walls of corner type models fit snugly into a corner while the door frame and the side walls occupy a minimum of room floor space.

Square type shower cabinets can be used almost anywhere, as long as there is adequate provision for concealing the necessary water pipes and connections.

To supplement the air of luxury supplied by shower cabinets even more, builders are offered a choice of attractive shower doors. Framed in aluminum or chromium-plated steel, glass doors provide safety and convenience.

But the real value of shower cabinets as part of the complete home package is an intangible one. It is the force that impels prospects to buy—an extra value that makes one home worth more than another.

Phitographs and data courtesy of Plat Metal Manufacturing Co.

### Ask for a "BESSLER" when buying a DISAPPEARING STAIRWAY



With a Bessler Disappearing Stairway it is possible to finish off the space above for use as either storage or added sleeping quarters.

Constructed of the finest materials, it is easily and quickly installed in old or new homes. Saves floor space in the room below and is easily operated.

Write for literature

THE BESSLER DISAPPEARING STAIRWAY CO.

1900 E. Market St.

Akren 5, Ohio

### Association News,

(Continued from page 69)

stitutes and divisions of NAREB will also have displays depicting the activities of the member real entate boards.

A village of model homes, both prefabricated and built at the site, will be erected adjacent to the Spyorama and the auditorium. The entire exhibition area will be fenced in, and the grounds typically landscaped.

Gunnison Homes, a subsidiary of the United States Steel Corp., has already contracted with NAREB for sites for two of its prefabricated homes on the grounds. Other members of the Prefabricated Homes Manufacturers' Institute are tegotiating for sites.

Another feature in the village will be the Futurama Home, incorporating the newest products and features, including built-in television. The model homes are expected to be of particular interest to Realtors, as it is estimated that 20 per cent of the membership of NAREB are builders, constructing about 200,000 homes annually in the present market, Waltemade said.

The exposition will be a closed show for NAREB delegates and invited guests for the first four days of the convention, Nov. 12 through 15, and will be open to the public for the last four days, Nov. 16 through 19, under the auspices of the Mianni Beach Real Estate Board.

National Realtors Exhibits, Inc., has been organized to manage the convention exposition, following action of the board of directors of NAREB at their semi-annual meeting May 12 in Chicago.

Other members of the convention and exposition committee, in addition to Waltemade, are F. Poche Waguespack. New Orleans, vice president: George F. Nixon, Chicago, vice chairman; David D. Bohannon, San Mateo, Calif., vice chairman : Earl S. Anderson, Los Angeles; Fritz B. Burns, Los Angeles; William J. Campbell, Kansas City, Mo.; Damian P. Ducy, Pueblo, Colo.; Matthew G. Ely, New York; Jack Justice, Miami Beach; Frank MacBride, Jr., Sacramento, Calif.; Donald T. Pomeroy, Syracuse, N. Y.; John J. Roache, Milwaukee; Herbert U. Nelson, Chicago; and Lowell Baker, Chicago,

#### 800 Attend Detroit Picnic

Approximately 800 persons attended the annual picnic of the Builders Association of Metropolitan Detroit at the Forest Lake Country Club June 28. Bill Clack was entertainment committee chairman.

### "THE MASTER"

JUST WHAT THE NAME IMPLIES

Not a Toy-Saw Rig or a Cut Off-Saw, but a complete mill that you can take right on the job and do all of your tough and finish cuts with one machine. OVERHEAD RADIAL SAW UNDERSLUNG BIF SAW 3-Knife Jointer Operated with only 1 Power unit, either electric motor or gasoline engine drive. . **JOINTING** RIPPING CROSSCUTTING MITERING BADOING TENONING BORING MOULDING MORTISING and many other cuts. There is no cut TOO difficult for the Master. . \* SEE the MASTER in operation in your locality or get Full Information from your dealer TO-DAY.

ACCURATE—DEPENDABLE and the most powerful machine on the market. SELF-ALIGNING—requires no adjustment for wear or accuracy. Compare MASTERS construction—Simplicity and easy operation. Built in 5 sizes up to 6" cutting expacity and easy operation.

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# HOME BUYERS LIKE THE KITCHEN-AIRE EXHAUST FAN BECAUSE IT'S DIFFERENT



Different, because it is FIRS-SAFE, greace leden at its FIRST drawn over motion; Different, bocause intoke grill may be mounted athere seeking range oven on leader well; Different, bocause architect of the province of the province seements between intoke grill

Different, because it is QUIST, operating mechanism is mounted QUISISS the wall; Different, because it is weatherproof, both droft damper protects against boat Inso, operation and production in beaused in convenient or collections.

Yes, the Kitchen-Aire is different. Electrically operated, easily installed, the Kitchen-Aire adds that plus-value which makes new houses soluble. It is the last word in Kitchen-west footness and the last word in Kitchen vosstlations, a footness was haven will like Underwritten Amproved, Advertised in Bertar Human and Cardinas.

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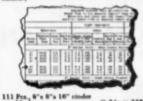


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You, too, can make accurate estimates. Forty years of on-the job cost analysis has produced the factors given in the Tamblyn Building Labor Calculator. Use these factors and make your estimate right!

#### HOW TO USE THE TAMBLYH BUILDING LABOR CALCULATOR ...simple multiplication of figures

To figure the cost of laying 8"x 8"x 18" cinder block analyse the cost of 100 square feet as follows: (Wage rates and material prices assensed.)



4.4 C. F. Mortar	45c =	1.98
4.0 Hrs., Mason 9 1 4.0 Hrs., Tonder 9 A Hrs., Fureman 9	3.50	7.00

Or 28.6c per square foot for material—and 20.4c per square foot for labor. Figuring for all the trades is as every as this example—and securities.

### WHAT CONTRACTORS SAY ABOUT THE TAMBLYN SYSTEM

"I think it is the best system I have seen."
"...just the thing I wanted..."

"...I want to congratulate you upon an excellent piece of work."

ľ	THE TAMBLYN SYSTEM 1118 So. Fuerl St., t44, Denver, Colo.
i	Bush the Tumblyo Building Labor Calculator on free 10-day trial. At the end of 10 days I will return their send my phack for \$10.00 or \$2
ļ	EXAMINATION
i	THE UTTER

### 'Abridged Building Code' Accepted in Printed Form At BOCA Convention

Acceptance of the first printed copy of the "Abridged building Code" highlighted the 35th annual convention of the Building Officials Conference of America, Inc. in Indianapolis June 5-8. The new standardized "performance" code for municipalities was approved by the conference in December, 1949, after more than five years of study by building commissioners from all parts of the United States. It has already been approved by the National Association of Home Builders and the Producers' Council.



CHARLES E. BACON, left. Indianapolis building commissioner, chais with Mayor Al Feoney at recent BOCA convention in Indiana capital. Bacon was convention chairson and in on BOCA executive committee.

Data for the code was compiled, correlated and prepared for publication by George E. Strehan, New York consulting engineer. It was presented at the convention by Joseph P. Wolff, of the Detroit building commission, first vice president of BOCA and board chairman of the Building Officials Foundation, financial sponsors of the code.

This code together with a Basic Building Code due for publication next month emphasizes "performance" of materials instead of specifying certain materials for certain uses. This type of code has been advocated by the Federal Government since the first World War.

In pointing out that the new code paves the way for introduction of many new materials by virtue of their performance alone, Albert H. Baum, BOCA president, commented: "Heretofore, manufacturers, producers and

(Continued on page 231)



. . with MODULAR SIZED

# Ualco Lifetime ALUMINUM CASEMENTS

With the increasing popularity of measury structure: particularly brick, brick venues and commen binch: MODULAR SIZED casements are a must., and Uulco windows are the ONLY insidiates sized aluminum casement windows available in the world, soday!

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lines.	
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UNION ALUM	INUM COMPANY, IN

#### Boca Convention . . .

(Continued from page 230)

contractors have had varied experience in securing acceptance of their products from city officials under one code or another.

"Products and new application methods have failed often to receive



CODE committee leaders discuss presentation plans for "Abridged Ballding Code." They are (from left): BOCA president Baum: George E. Strekan. New York consulting engineer. correlator of the Basic Building Code: and BOCA Past President Walker S. Lee. member of the New York State Building Code Commission

acceptance, not because of inherent shortcomings, but because of varying interpretations where the local code was not clear."

The code is designed for cities below 30,000 population. Because of standardization and adaptability to all sections of the country, these cities can adopt it without incurring the added expense of making their own regulations, Basm added.

Strehan pointed out there are more than 2500 conflicting specification codes now enforced throughout the country, 80 per cent of which are 10 years or more old.

"They are replete with antiquated provisions, often kept alive by local prejudice or fostered by selfish pressure groups," he said.

"They service communities from \$000 inhabitants to nunicipalities of more than 8 million. To aggravate the confusion for manufacturer, builder, designer and the public there are more than 15,000 political aubdivisions, large and small communities, clamoring for new building codes or appointing commissions to attempt the task.

"At least 14,000 of these political subdivisions of from 100 to 5000 population have no code at all.

"The cost of technical expert services, elaborate legal procedures involved, plus the expense of public (Continued on page 232)



### WITHOUT REPLACEMENT

Your customers can be sure of a lifetime of service when you recommend windows hung with Spot Sash Cord. Nearly all the Spot Cord installed during the last 50 years is still in service today! Spot Cord is inexpensive to install... requires practically no maintenance, replacement or adjustment... cannot get out of order.

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#### Boca Convention . . .

(Continued from page 231)

hearings, repetitive printing of original and amended drafts involved in the formulation of a building code entails a prohibitive investment for most communities.

"Thus the control of building construction is either haphazard, discriminatory or harmful to the public welfare and the efficient development of a community. But the need for a code is evident and imperative."

The basic concepts stressed in the code as explained by Strehan include;

 A comprehensive classification of use groups of buildings based on the inherent fire hazard peculiar to each.

A classification of types of construction covering both traditional and new developments.

 A plan for controlled and ordinary materials procedures which intimately concerns the professional engineer.

 A code based on functional performance standards providing an open door for all methods of construction.

5. New measuring sticks for fire resistance of materials and methods of construction.

Height and area limitations to secure a uniform degree of fire safety for all "me groups" and all "types of construction."

Minimum safe live load requirements consistent with functional requirements.

8. A comprehensive treatment of all building service equipment neces-



JOSEPH P. WOLFF, right, Detroit building commissioner and chairman of board of governors of Building Officials Foundation, presents first printed copy of "Abridged Building Code" to Albert H. Brum. BOCA beed and St. Louis building commissioner sary for safe and livable housing conditions.

 A plan for co-ordination of inspection and control which will eliminate overlapping jurisdictions both locally and nationally.

Provision for a "building code fund" for the exclusive purpose of building code enforcement can be



Product pictures and proper dimensions for builders are all found in this folder. Merely ask for Bostwick Metal Lath Accessories folder . . . free, no responsibility to buy.

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accrued by BOCA through sale of the two codes. The ABC is being sold through Strehan's office. 51 E. 42nd St., New York City 17, N.Y. The cost is \$3 for the paper-back edition and \$4 for the cloth-bound. Prices for the Basic Building Code, when it becomes available, will be \$5 and \$6.50. Prices will be reduced for purchases in lots over 100.

At the conference, plans were also developed for a central clearing house to analyze and interpret test data and to make recommendations for use of this data in approved techniques; for compilation and standardization of all technical research information, test procedures and developments in the industry; and for uniform approvals and unified administration of building laws in the nation.

The framework of the BOCA-BOF plan was explained as a comprehensive system of checks and balances with all components of the industry represented. Although committee members for the various divisions in the plan have not yet been named, it is planned to select members from outstanding technicians, engineers and building officials throughout the country before BOCA convenes for its 36th annual meeting in Toronto, Canada, next apring.

First committee to be named will probably be the important code changes committee. Recommendations for seven sub-committees, including duties and functions; and a committee general of eight members to serve staggered three year terms were made to BOCA by procedure committee chairman Eugene N. Smith, director of service in Wichita, Kans., and his seven-man advisory board at the last day of the conference.

This board urged a code changes body composed of building officials, two having structural engineering background and at least two others having had previous experience as architects.

All requests for changes or amendments to the provisions of the building codes will be analyzed and studied by the code changes committee of BOCA in consultation with the special sub-committees. It was recommended that these committees seek information from professional society representatives of trade associations and material manufacturers through the BOF advisory committee.

All suggested changes, including those initiated in the sub-committees, will be briefed and reported in the monthly magazine, "Building Stand-

(Continued on page 234)

### GILSON Mortar and Plaster Mixer



THE GILSON mortar mixer does the good job you want an every batch—and is built to stay on the job. You can depend on this mixer more than on any other because the precision, self-aligning ball bearings keep running true despite the pull of big and heavy loods. Even more, you easily change any part of the mixing unit without disturbing

the shaft or bearings . . . no need to have your Gilson torn down in a repair shap. Grates have narrow openings to safeguard hands—a safety feature that you want to protect your men and yourself. Model 6-P-PT is one of 39 mixers now serving contractors coast to coast. Write for the 6-P-PT bulletin and the name of your Gilson distributor.

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#### Bocs Convention . . .

(Continued from page 233)

ards Monthly." It was also recommended that, after publication in the magazine, action of the committee on such changes finally be presented for determination in open convention at the annual BOCA streeting.

Revisions will be classified as "desirable"—minor corrections which do not affect the provision of the code; and "factual"—all other types of changes.

The procedures committee urged that "factual" changes be reported on by the code changes committee sixty days prior to the annual convention and that the reports be published at least 30 days prior to the annual convention. It was also suggested to the behavior of the convention of

annual convention. It was also suggested a schedule of fees be made for "partially defraying the expense of making the necessary tests, investigations involved in the changes."

Also recommended by the proce-

dures group was a full-time secretary

to function as clearing chief of the code changes committee.
Following adjournment of the conference, the Joint Committee for Unification of Building Codes, representing 11 building code writing and enforcing agencies, held their sixth

meeting since February, 1947, in an

effort to consider suggestions made about the various codes in relation to occupancy of buildings, fire resistance values, floor loads, classification of buildings and fire resistance in buildings.

The codes studied were the uniform code of the Pacific Coast Building Officials Conference, the code of the National Board of Fire Underwriters, the code of the Southern Building Codes Congress, the basic code of BOCA and the various standards of the American Standards Association and the National Fire Protection Association.

Attending were representatives from these groups as well as from BOF, the Housing and Home Finance Agency, National Bureau of Standards, Underwriters Laboratories and the construction division of the U.S. Department of Commerce.

#### Plan Color Scheme Change

The intention of changing the color scheme of their kitchen cabinets was expressed by more than half of the housewives questioned in a recent Ponderosa Pine Woodwork survey. Of this number, 39.7 per cent said they would change in less than five years and 53.3 per cent set the time at between five and 10 years,



Better concrete, because Jaeger mixing drums and blades give criss-cross, double-thero mixing. More concrete per wage dollar, because Jaeger 6, 11 and 16-cu-ft mixers have famous Skip-Shaker Loader that shakes load into drum cleaner and faster, and the fastest discharging drum on the market. You pour more concrete, handle more jobs in the mme or less time. Machined steel drum tracks, Timkenbearing carwheel-type drum rollers, mean longer life. Write for Catalog M.-8.



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### **Glass Slab Edge Insulation Used in Levitt Development**

One of the construction features of Levitt and Sons homes in Long Island, N.Y., is the use of sections of glass insulation around concrete perimeters to block heat loss through floor slab edges. The material used is Fiberglas Slab Edge Insulation, manufactured by the Owens-Corning Fiberglas Corp., Toledo, Ohio,

William J. Levitt, president of the organization, which is currently



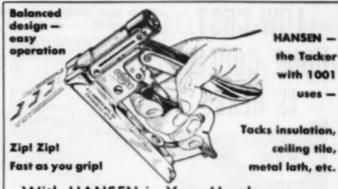
FIBERGLAS Slub Edge Insulation being placed around perimeter of Levitt house. 12x48-inch boards are installed vertically

building approximately 4,000 houses a year, said the glass insulation was also chosen for its resiliency, which permits it to expand as an expansion joint between slabs and foundation walls. Other advantages he cited were non-absorption of water and resistance to damage from rot, vermin and termites.



CONCRETE is poured over top and on top of two rows of the insulation to enclose it

In the Levitt homes the insulation used consists of individual 12x48-inch boards, 1/4-inch thick, coated on one side and edged with asphalt to which stout kraft paper is adhered. These glass insulation units are set vertically to 12-inch ground depth around (Continued on page 236)



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you can do all kinds of tacking and fastening jobs. Thirty-six different models. Eighty stuple lengths. For serveno, ceiling tile, insulation, metal lath, etc. Ideal for all types of building and construction.



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Installation of Hunter's new, compact package fan is simple and inexpensive. Fan, motor, suction box and shutter are all in one unit that requires only a ceiling opening in hallway and 17" clearance in attic. Four models, ranging from 4700 CFM to 9500 CFM, to fit any home size



and climate. Quiet, powerful, dependable. Manufactured by Hunter, exclusive fan makers for 64 years.

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Send copy of "How to Cool for Comfort"

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City & State

### Hunter Attic Fans

#### Glass Slab Edge . . .

(Continued from page 235)



NEXT step is to smooth the concrete over insulation and radiant heating coils

each house. When the complete perimeter has been formed, concrete is poured on either side and over the top of the insulation barrier to enclose it.

### Luminous Colling Used To Modernize Drug Store

A completely illuminated ceiling suspended to conceal unsightly beams and old-fashioned scrollwork was the major alteration in modernizing the Brundage Drug Store, Muskegon,



DRUG store after modernization. New illuminated ceiling hides old beams and scrollwork, focussing attention on drugs

Mich. The new ceiling system which raised illumination from eight footcandles to approximately 70, is the "Flexi-Module," developed by the Sylvania Electric Products, Inc., New York City.

Aluminum louver panels, each composed of 32 individual cells, are suspended from the original ceiling bymeans of adjustable hanger straps which support them. The luminous ceiling conceals 47 single-lamp Slimline fluorescent lighting fixtures spaced 24 inches O.C. throughout the store's 2,100 square feet of floor space.

Additional fluorescent lighting concealed above the wall cases along the sides of the store call attention to packaged goods on the shelves.



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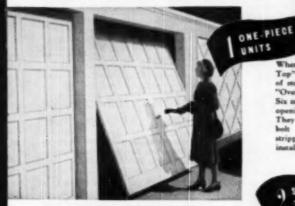
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# ONLY OVER THE TOP' BY FRANTZ OFFERS A CHOICE OF 3 DOOR TYPES



#### COMPLETE WITH EQUIPMENT AND MILL-MADE DOOR

When peice is the vital factor, "Over-the-Top" Units are the snower. Units consist of sturdy, mill-made doors with famous "Over-the-Top" Bunipment by Frants. Six models (see table, right) fit standard openings... require only 2" headroom! They feature such estros as pre-bored bott holes, self-lecating steel weather stripping, and simplified design to cut installation time and labor costs.

Unit	Opening	Dimensions
No. 10	8' wide	F high
No. 20	B' wide	7' high
No. 7	8' wide	6'6" high
No. 77	B' wide	6'8" high
No. 19	Y wide	7" high
No. 21	14' wide	7' high

#### THE SECTIONAL DOOR THAT OFFERS 14 DESIGN ADVANTAGES

Frantz offers a sectional-type over-head door that is 14 ways a better buy. For example: a two-point spring adjustment gives such perfect balance that door opens itself when lock is released, yet can be closed with a finger? Other features include the adjustable brake (patent-applied-for) which stops door at open position instantly, quietly; jimmy-proof dual latches with chrome auto-type handle; brass cylinder lock; etc. Available in the following sizes: 8'x7', 8'x6'6", 9'x7', 9'x6'6", 15'x7' and 16'x7'.



### ARCHITECT-

#### "OVER THE TOP" EQUIPMENT PERMITS CUSTOM STYLING OF GARAGE DOORS

Design your door, build it on the job, and apply "Overthe-Top" Equipment. You'll have a job you'll be proud of and one you can install and forget. Table below lists sets available for any size and weight residential, commercial, or industrial door.

Milwe.	Stock No.	90.05	Height	Dear Wil (Ste.)
Light Warght Series	87 60 80 <sup>9</sup>	T to F T to F F to F	6'6" to 7'0" 6'6" to 7'0" 6'6" to 7'0"	50 to 95 100 to 100 100 to 100
Medius Weight Series	74 749 25 176 179 769 769 94 762 763	7 to 8 7 to 14 7 to	6 6" to 7" 2" 6 0" to 7" 2" 7 4" to 8 0" 7 4" to 8 7"	100 to 150 100 to 150 100 to 150 150 to 250 150 to 250
	810 810 810 810	F to 14' F to 14' F to 14' F to 14'	9"4" to 10"0" 9"0" to 9"6" 6"4" to 9"0" 8"0" to 8"4"	100 to 200 129 to 229 160 to 200 175 to 271
Henry Series	716 716 716	8' to 16' 8' to 16' 8' to 16'	8,1, to 8,0, 8,1, to 8,0, 8,1, to 10,0,	1 56 to 2 50 175 to 275 200 to 200
	718 716 718	8" to 18" 8" to 18" 8" to 18"	9"1" to 10"0" 9"1" to 9"0"	100 to 371 310 to 421 340 to 473
Eatre Henry Earles	912 912	9' to 18' 9' to 18' 9' to 18'	9'0" to 10'0" 10'1" to 11'0" 11'1" to 12'0"	335 to 440 375 to 720

#### A COMPLETE LINE OF BUILDERS' HARDWARE

"Over-The-Top" Units or Door Equipment can be purchased from your nearby Frantz Dealer, who can also supply you with Frantz "Red Label" Guaranteed Builders' Hardware, for your other hardware needs.

FRANTZ MANUFACTURING CO., STERLING, ILL.

FRANTZ

GUARANTEED BUILDERS HARDWARE



Homes with stainless-steel-weatherstripped CLEARVIEW Louver Windows are so distinctive, so desirable that higher prices and quicker sales are inevitable! Unique beauty and utility command a higher price, willingly paid. Adaptable to frigid winters, sweltering summers. Made by the world's oldest and largest manufacturers of louver-window-treatment products — over 500,000 installations in over 14 years.



Clear, abscure, ar tinted 14"x3" glass louvers open wide to welcome-in bountiful breezes for maximum summer coolness. While a slight handle turn locks them weather-tight against biting blizzords. Or lock louvers at any desired intermediate angle to keep rain and prowlers out, yet provide abundant ventilation, ideal for doors, windows, and porches. Also available in aluminum or wood louvers. Inside removable screens interchangeable with storm-sosh when required, Lears, full details about CLEARVIEW'S architectural acceptance and builder benefits from our nearest plant or office.

CORPUS CHRISTI MOUSTON SAN ANTONIO NEW ORLEANS SMETVEPORT LOS ANGELES LITTLE BOCK MEMPHIS JACKSON ATLANTA MIAMI TAMPA WEST PALM BEACH ST. PETERSBURG FT. LAUDERDALE

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### Correction in Recommended Vermiculite Mixtures

Numbers games are not what the reader expects to find within this publication's pages, but reading page 222 of the July issue might have planted suspicions in someone's mind. The American Builder wishes to inform its readers that the chart (concerned with vermiculite) on that page was inadvertently scrambled. Strengths and insulation values of verniculite concrete vary with the amount of cement used in the mix; the chart, a tabulation of various mixtures, should have read as follows;

Mis by Vol		Compromise strength in	Thermal conduc-
Bags of portland coment	Cia. ft. of vermiculite concrete aggregate	pounds per og, in., 1-inch discs on 6x12- inch cylinders 240	per inch thickness per sq. ft. per hour per degree F. 0.79
1		115	0.65
1	16	11	0.46

\*11, 1615, and 44 gallom of water used in these missa, respectively. Density in peemis per cubic foot of the missa above are 26, 24 and 16 respectively. Indentation strength, one inch disc on 2x12x12-inch sleb of the missa above in 327, 164 and 28 respectively.

In addition, an error was committed in a photograph caption and in the body of the article by referring to a 1:6 mixture of vermiculite and cement for concrete masonry wall insulation. Although the 1:6 mixture is recommended for use in floors on the ground, for radiant heated floors and for other usages where higher compressive strengths are needed, the 1:16 mixture is advised for filling masonry unit cores and cavity walls for insulation purposes.

The American Builder expresses its apologies for these errors.

### New Building Blocks Require No Mortar

New building blocks developed by Hydro-Forged Stone Associates, Inc., of Cleveland, Ohio, are made entirely from waste materials and eliminate mortar in constructing homes, commercial buildings or frame structures.

The block resembles cut stone, granite or marble, and is made in a patented tongue and grooved design within tolerances of five one-thousandths of an inch. When laid, these molded stones lock into each other to form a wall of high strength. In order to insure against seepage of moisture, a mastic material applied with a hand-operated gun is spread on the grooves as the blocks are assembled. The tongues and grooves are molded into the building blocks as they are formed on a hydraulic press under 150 tons pressure. Accuracy and uniformity with which the blocks are made make it possible for an unskilled worker to build a perfect wall merely by laying one block into another, G. P. Dooley, president of the Hydro-Forged firm said.

The standard block, which measures eight inches wide, four inches high and 16 inches long, is hollow in the center. That provides about 75 per cent of the volume of the block as dead air space for insulation.

Dooley pointed out that although any unskilled person is capable of laying his company's blocks, a union worker and a helper will lay 600 Hydro-Forged stones per day, equivalent to 311 square feet of eight-inch-thick wall.

The newly formed Hydro-Forged company is now prepared to grant franchises throughout the country and abroad for the purpose of manufacturing the patented stone blocks. The machines will become the property of the owner and his territory will be on an exclusive basis only.

### Assocation News.

### Cortright, cont'd.

ton by the National Association of Home Builders and other industry groups with the various agencies of government responsible for the planning. Upon the adequacy of the solutions will depend in time of war the production of material and the morale of the civilian population.

It is indeed a depressing but nonetheless essential task and one which must be undertaken if we are to avoid repeating the mistakes and confusion of 1942. Who can forget the constant atream of regulation and counter regulations-the rapid inflation of priorities for war housing until they became valueless-the nine months' construction period resulting from inability to secure materials and all of the other faults stemming from the lack of intelligent and adequate preliminary plans for an unexpected emergency?

None of this must happen again. The segments of the industry, cooperating with the government, can do no less than anticipate the worst and pray for

the best!

### Nearly 100,000 Visit Washington Show

Between 80,000 and 90,000 persons attended the recent 10-day Home Show sponsored by the Home Builders Association of Metropolitan Washington, at the national capital's Armory.

Principal speaker at the opening ceremonies was Thomas P. Coogan, Miami, Fla. NAHB president, with brief talks being made by President Clarke Daniel of the Washington association and Show Chairman Clyde Veverlee. Mrs. Clarke Daniel cut the ribbon at the ceremonies.

Among the show's special features were a radio program, "Salute to the Home Show"; a contest for "Home Show Queen"; a demonstration of color television; and a design competition for students of Washington high schools covering two categories, plans and mod-

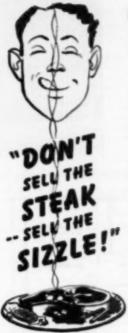
### Advertising Drive Launched By Wood Window Group

A vigorous advertising campaign for its product was mapped by the American Wood Window Institute at the annual convention June 15 in Memphis, Tenn. A large number of members signed up to set the program in motion.

New officers elected at the convention were F. R. Weddington, Waco, Tex., president; Fred Bissell, Dubuque, Iowa, vice president; M. C. Davidson, Houston. Tex., treasurer; and Clark E. McDonald, Memphis, secretary.

The institute's meeting came at the conclusion of the annual meeting of the Southern Sash and Door Jobbers As-

sociation.

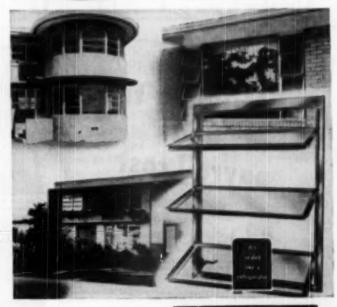


Elmer Wheeler, noted lecturer on salesmonship, neatly emphasizes the importance of dramatizing autstanding points of a product, when he declares: "Don't Sell the Stock -- Sall the Sizzle!"

Builders throughout the country tell us that the Auto-Lak weatherstripped Aluminum Awning Window is providing the very "sizzle" that they need to move their product (houses) faster. The tightest clasing window ever made is quick to register a favorable impression on prospects.

Home purchasers or remadelers readily visualize why Auto-Lok affords maximum draft-free ventilation during the warm months -- why it assures positive protection against all climatic extremes.

The first and only effectively weatherstripped awning window is equally suitable for small or large homes, for schools, hospitals and institutions. It's tops for ventilation, for visibility and for protection! Close more sales with the aid of the tightest closing window ever made!



Consult your copy of SWEETS. or write for name of nearby AUTO-LOE distributor. Address: LUDMAN CORP. Dogs. AB-8 P. O. Box 4541, MIAMI, FLORIDA



### Window Wall Adds to **Room Size**



A 3-SEDROOM house that will be at home in any community BED ROOM ! HALL LIVING ROOM DINETTE Вео Росы 2 BED ROOM 3 FLOOR PLAN

DESIGNED for the American Builder Plan Service, this onestory house has much to offer the family of limited means whose needs require three bedrooms.

The compact and convenient floor plan utilizes every foot of the interior for living space. It eliminates unnecessary hallways and achieves a feeling of spaciousness through the generous use of windows which permit an abundance of light and air within.

By locating the dinette and kitchen between the living room and the bedroom-bathroom wing, the designer achieved a degree of privacy for the latter. Further the plan makes the bathroom and bedrooms readily aces-

(Continued next page)

### THE ONE SURE WAY TO cut building time and payroll cost



Odin Zion Lutheron Church, Mankata, Mi Architect, Ernaut Schmidt Contro for: William Ohan

The sooner you can get a contract completed, the sooner you can next building.

Ritco Cluwd Laminated Wood Arches and Trusses help you do just that . . . without hiring a lot of extra labor or adding specialists to your payrol.

Ritco structural members come to your jobsite ready to be assembled and swung into position. There isn't a sawcut to be made . . . not a belt hole to be drilled. Every piece fits perfectly . . . and goes together fest. Your regular car pentry crew does the work without special tools of the property crew does the work without special tools are the property crew does the work without special tools are the property crew does the work without special tools are the property of the property crew does the work without special tools are the property of the property crew does the work without special tools are the property of the perfectly and the property of the perfectly of the property of the p

one aind.

There are standard sizes and types for practically any sort of biting . . . and Rilco engineers will be glad to work with you to raine special designs for any specific structure. Write for money-ten details.



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PRODUCTS, INC. 1647 FIRST NATIONAL BANK BLDG. SAINT PAUL I, MINNESOTA

### LOW COST BEAUTY

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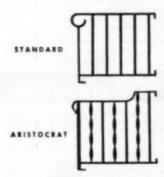


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- CRACK

Traditional beauty in lifetime aluminum, priced lower than most wood shutters. Full lourse, plain panel and batter styles in natural aluminum, green prine coat, or green, red, blue, white in long-lasting baked enamel. Available in all sizes. Shipped one pair to carten, complete with attachment screws.

#### PORCH RAILING



Solid iron ornamental porch railings in a wide selection of styles. Exceptionally low in cost. Ornamental scrollis, porch solumns and brockets also available. Installation kit at slight extra charge promotes over the counter sales.

> Write for catalog, price list and Fousco dealer nearest you.

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1709 FRONT STREET CUYANOGA FALLS, OHIO

AUGUST, 1950

#### Window Wall . . .

(Continued from page 240)

sible from the kitchen; an important feature in a house that does not use halls for circulation.

A wall of floor-to-ceiling windows increases the depth of the 15 by 12 foot 9 inch living roum, as well as enhances the exterior appearance of this frame dwelling. The use of a partition, wainscot high, to separate the living room from the dinette serves the duo-purpose of creating a feeling of roominess in these areas while providing privacy for the dining room. The Broken-L layout of the kitchen permits installing the sink under the window where it is handy to the range and the work counter. Long closets with space-saving sliding doors provide adequate storage in the bedrooms.

Designed for basementless construction, the house has locker and storage rooms adjoining the utility room for the storage of items normally kept in basements. Besides the heating unit, the utility room provides ample space for laundry equipment including stationary tubs under the window.

Over-all the house contains approximately 1275 square feet. As pictured, the horizontal lines of the siding, repeated in the pattern of the window, topped with a low-pitched roof give it a "close-to-earth" appearance which is appealing,

To obtain a complete set of blueprints, drawn to 34-inch scale, write American Builder Plan Service, 30 Church St., New York 7, N.Y.

#### Materials Made to Scale For Model Buildings

A service which provides materials for the construction of a large variety of correctly-scaled model buildings is being offered by Architectural Models, Inc., of Chicago, The materials include nine types of brick, clapboard siding and shingles, made of plywood by a patented process; and 40 different types and sizes of doors, windows, shutters and flower boxes, fabricated of white plastic.

Steps in using the made-to-order model building materials were listed by the manufacturers as follows:

 Make working drawings and determine scale; for example, 55-inch or 34-inch to the foot. 2. Select roofing and siding materials in the proper scale. 3. Make a list of the requisite roofing and siding and the sizes and quantities of windows, doors and other millwork.



### VITROLINER TYPE "E" FLUE Attention Builders and Architects

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CONDENSATION ENGINEERING CORPORATION



### **Mechanical Spreader Cuts** Morter Waste 50 Per Cent

A mechanical mortar spreader of an unusual type, designed for use on standard building blocks, has been in-



PARALLEL augus, spaced to match face shell of concrete block, sproud even bed of mortar as operating crank of mechanical unit is turned

vented at the Washington State Institute of Technology, Washington State College, by Jack J. Wegner, staff chemical engineer.

Wegner estimates a 50 per cent mortar saving with the use of this unit. Essentially, the invention consists of a hopper body 16 inches long, 71/2 inches deep and 91/2 inches wide. Two horizontal augers extending full length in the bottom of the hopper pass through openings in the rear of the hopper body and force mortar



**INVENTOR** Jack J. Wegner demonstrates use of mortor sprouder designed to reduce waste in laying concrete block up to 50%

through these openings when rotated. A rotating crank turned by hand actuates the mechanism.

The hopper body is supported on the masonry by wheels in front and wheels or skids in the renr. The rub-

(Continued on page 244)

### Save HALF Your Time BUILDING STAIRCASES



-Mark board with gauge for perfect fit

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seconds gives you BOTH correct in 10 seconds gives you BOTH correct length and angle of stair treads, risors, clonet shelves, etc., ready to mark board. Each rad pivots and locks at any LENGTH OR ANGLE endomestically. Adjustable from 20° up. Saves a day or inore, increases your profils 280 or MORE on each staircose. Fully goaranteed. Circular on request.

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More than 800 "practical job pointers" that save time, expense and labor on building jobs.

New! Carpentry, building construction and building repair jobs are made easier with the practical methods shown in this big 211-page book. Every one of these methods has been TESTED in actual use; every one saves time, saves work, saves money.

Contents include: 88 handy ways to use tools; 37 ideas for work benches and attachments; 62 work-saving ways to use portable equipment; 39 suggestions on excavations, foundations and forms; 32 methods for making sills, gird-

ers, joists and sub-flooring; 49 hints on exterior and interior wall con-struction; 36 short-cuts in roof and bay construction; 19 tips on making cor-nices and porches; 84 ideas for inter-ier wall covering and trim; 27 helps en stair construc-tion; 37 window suggestions; 54 ideas for installing doors; 29 tips en closets, shelves and equipment; built-in equipment; 24 flooring pointers; 35 aids in installing sanitary equipment; 44 short-cuts in laying out work; etc., etc., etc., etc. More than 700 illustrations show you exactly "how-to-do-it." All items indexed so that any particular idea or short-cut you want can be located in-stantly.

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Raise a sagging bear without using a jack? epair a sunken floor board without ripping out the entire floor? Scribe and fit boards to an irrogular surface? Replace broken asbestos shingles? Repair worn door binges? Lay a woud floor over a concrete base?

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KEEP INVENTORY DOWN WITH STERLING . . . A hanger for every door . . . only one track for all.

STURDILY CONSTRUCTED-Hangers are steel, cadmium plated. Will carry doors up to 100 lbs. Track is steel, finished in blue-gray baked enamel.

SIMPLE TO INSTALL - No special woodwork required. EASY TO ADJUST - Adjustment is convenient and accessible with ordinary wrench,

QUIET ACTION-Roller is smooth high strength molded phenolic. Oilite bearings. Doors glide easily,

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The most MODERN kitchen ventilating system



### Installs in cabinet over range...double inlets provide COMPLETE ventilation

Only the Super Clipper Kitchen Ventilating System—made by Trade-Wind exhausts cooking tumes and heat from both the stove and at the coiling level.

This newest development is installed in metal or wood cabiners directly over the stove. The twin squirrel cage blowers produce 600 CFM—more than sufficient power to trap all cooking heat, grease and odors from the range top as well as through the second inlet at the criling. The monor is equipped with a 2-speed control. Two metal air filters are provided. Both a fold-under hood and stationary hood are available and both are optional.

No other kitchen ventilator can do the complete job that the Super Clipper accomplishes. And no other ventilator offers the architect, the builder and the home owner the ventality and efficiency which the Super Clipper provides for the modern kitchen.

 Several manufacturers now build metal cabinets especially for the Super Clipper. Wood cabinets can also be built to the job. Trade Wind does not percise the cabinet.

Write today for complete information

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\$705 S. Main St., Los Angelos 37, Calif.

#### New Garage Doors Are Attractively Designed

Two designs of wood sectional overhead-type garage doors which are proving popular are the raised panel and flush doors produced by the Raynor Manufacturing Co. of Dixon, III.

The firm's raised panel doors are made in a variety of designs, including a selection of figured panels and com-



RAYNOR raised panel door is made in a variety of panel designs and combinations

binations of figured and plain panels. They are produced in 1½-inch and 1½-inch thicknesses with the raised panels 11/16 inches in thickness.

The flush door is produced without nails by a new electronic bonding



SPECIAL electric bonding process is used for flush door, fabricated with plywood

process, the manufacturers said, with a waterproof glue dialectrically heated under heavy pressure creating a fusion or bond of both frame and fir plywood panel. Windows in third or top section are optional. The over-all thickness of this door is 1½ inches, and it is made in standard one- and two-car garage sizes.

#### Mechanical Spreader . . .

(Continued from page 242)

ber-tired front wheels move the spreader forward as the operating crank is turned.

Operation of the unit is continuous and rapid. The spreader, filled with mortar, is set on a previously laid course of masoury units. As the crank is rotated the unit advances along the wall, distributing a proper quantity of mortar on each face-shell. Head joints are buttered by running the spreader along a row of up-ended blocks.

### BUILD AT LOWER PRICES

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- Sock-double hung and
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(low investment -- at send \$100 | plus a variety of prolectional type "Tru-From" Shaper Cutters keep your men lusty on off days.

Free passwell from high mill charges. Save big money. Save hours spent in trips to the mill. Avaid long earls for special made cach and millwork. Investigate saw!

You can't make resonnerial sach and doors without a properly powered slager. The Boire-Crane No. 2100 Shaper is designed for 138 r.p.m. high teruse, high power motors up to 11 H.P.

Shapers with 1600 r.p.m. low torque meters simply will not do a satisfactory job, as those who have tried at will testify.

The Boier-Craine Shaper has a more accurapineo opitella, strong essos ghi for existers in 6 1, damostra (Contract with the 3" maximum of olive narkes with spitoilise onder 1" diameters." Makes longer

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Button-Crasse intermedistic capacity power took are of just the right size for setting up a mill in your own shop. A 16-ach size—chinch justine equilibration; a drill press and inorthere and a 14-ach band saw one he had for loss than \$100. They'll ups for thouselves in no time and go see to make moster for you for press to crass.

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STREET
CITY & STATE

### A.I.A. Names Secretary To Promote Advancement of Modular Co-ordination

William Demarest, Jr. of New York City has been appointed secretary for modular co-ordination in the department of education and research of the American Institute of Architects in Washington. Creation of the new position is a major step in a plan, drawn up by the joint committees of the A.I.A. and the Producers' Council to promote the further advancement of modular co-ordination.

In announcing the appointment, Edmund R. Purves, A.I.A. executive director, said that Demarest, through work with architects, schools of architecture, builders, building materials manufacturers and the Housing and Home Finance Agency, will provide a much-needed unifying factor for the further development of modular standards and the more general acceptance of the principles of modular co-ordination.

Serving as co-ordinator of promotion, education and service in the modular movement, Demarest will work closely with Committee A-62 of the American Standards Association and the HHFA, which is promoting standardized dimensions on all building materials. Other construction industry groups and the architectural profession will be encouraged to adopt the modular plan which is based on a 4-inch module.

#### Van Packer Chimney Gets Underwriters Approval

Use of vermiculity in the new Van Packer "packaged" chimney has helped win Underwriters Laboratories' approval for the chimney. revising the earlier Laboratories' decision, according to spokesmen for the Van Packer Corp., Chicago. Recent tests of the product with an improved insulating wall and fire safety features, sponsored by the National Board of Fire Underwriters, found the chimney acceptable for use with all fuels in residential construction in which the chimney comes in direct contact with floor, ceiling and roof icusts.

The product is made with a refractory fire clay liner and a threeinch wall of vermiculite concrete encased in an aluminum jacket.

With a steady flue temperature of 1,000 degrees Fahrenheit in the test, thermocouples against the outside of the chimney registered only 90 degrees above room temperature, according to the laboratories' report.



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CONTONE 7-5100

# 9

# FEET WIDE! THE NEW STANDARD WIDTH GARAGE DOOR

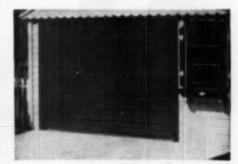
In this TAYLOR exclusive (patent pending) the door face is an integral part of frame making a stronger, lighter door. Sturdily constructed of rust-resistant Galvannealed Steel, this door requires no

primer coat. Galvannealed Steel costs 20% more, but we sell at competitive prices.

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Doors also available in 8' x 7' single and 16' x 7' double sizes.

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### INDUSTRY BRIEFS

S. J. McCarthy, formerly general



sales manager of New Castle Products, New Castle, Holcomb and Hoke Manufacturing Co. Inc., Indianapolis, as general manager of the company's folDoor

division, which is producing a new "accordion-fold" folding door. Me-Carthy has been in sales and sales management work for the past 22 years, and has been affiliated with the Westinghouse Electric Corp. and the Norge Division of Borg-Warner Corp. . . . . .

Harry T. Kendall, general manager of Weyerhaeuser Sales Co., St. Paul, has been elected chairman of the board. His place as general man-: ager has been taken by R. S. Douglas, a vice president, who has been with the company since 1923 and in recent years has been manager of sales for West Coast mills of Weverhaeuser Timber Co., Tacoma, Wash., the parent organization.

The appointment of J. E. L. McCall as advertising manager of the Ameri-

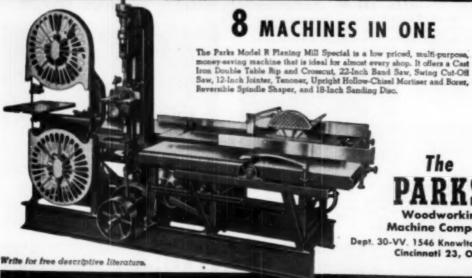


can Lumber and Treating Co. has been announced by J. F. Linthicum, president of the firm. McCall began working for this company as assistant advertising manager in 1948,

following two years in the advertising and sales promotion divisions of the General Electric Co. McCall will be responsible for the advertising campaigns on "Wolmanized" pressure-treated lumber and for the sales promotion programs of the regional offices of the company,

The election of J. B. Faegre as president and of C. T. McMurray as executive vice president of the Minnesota and Ontario Paper Co., Minneapolis, has been announced by R. H. M. Robinson, chairman of the board. Faegre has been associated with the firm since 1930 and has been a director and member of the executive committee since 1941. In his new capacity, McMurray, who joined the company in 1918, will be in charge of all sales and operations.

# The PARKS PLANING MILL SPECIAL



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### INDUSTRY BRIEFS

Curtis Companies, Inc., Chioton, Iowa, has taken over the cutting plant at Baker, Oregon, formerly operated by Baker Wood Products. The plant will be operated by a subsidiary under the name of Curtis Wood Products Co.

The election of Thomas I. Byrd as



vice president in charge of sales has been announced by the Lau Blower Co., Dayton, Ohio. Byrd has been sales manager for Lau Blower since September, 1943, before which

Byrd he was department manager in the Market Development Division of Armco Steel Corp.

The appointment of C. S. Davis, Jr., as president of the Borg-Warner Corp. Norge Heat Division, Chicago, Ill., was announced recently by Roy C. Ingersoll, corporation president. Davis, formerly vice president and general manager of the division, succeeds G. P. F. Smith, who now will devote full time to his duties as president of the Norge Division.

The appointment of George R. Seid-



litz as vice president and general manager has been announced by the Seidlitz Paint and Varnish Co., Kansas City, Mo. Seidlitz was formerly vice president in charge of sales. Joe C. Huntoon, Jr., has

been named vice president and sales manager,

The 1950 convention of the structural clay products industry will be held at the Broadmoor Hotel, Colorado Springs, Colo., Oct. 23-26, it has been announced by W. J. Goodwin, Jr., president of the Structural Clay Products Institute. Special convention trains will be arranged to pick up convention-goers from New England, the Eastern seaboard, and through the Midwest,

The promotion of James G. Badger, formerly secretary and assistant to the president, to vice president and treasurer of Hines Lumber Co., Chicago, was recently announced by Charles M. Hines, president.



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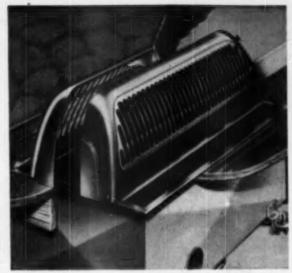
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Fits in floor, extends only 22%" below and is floodproof to 19" below. It's a small-size furnace with bigfurnace heat production.

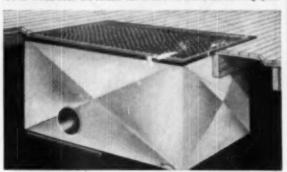
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Fully automatic. Gas, Oil and LP-gas models. Fully insulated and rustresisting. 26- to 45-gallon capacities with fast recovery rate. Beautifully finished. incorporating Cie latest Coleman advancements for fast, lowcost hot-water service.





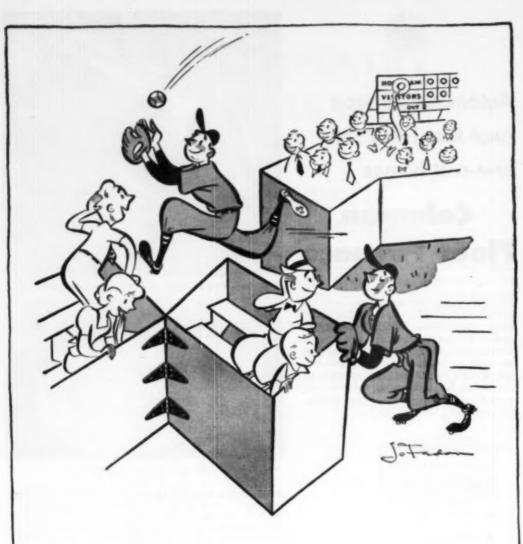
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In SUMMARY, with KWIKSET you will enjoy satisfactory service and pleasant relationships with plus values in every KWIKSET lock you buy!





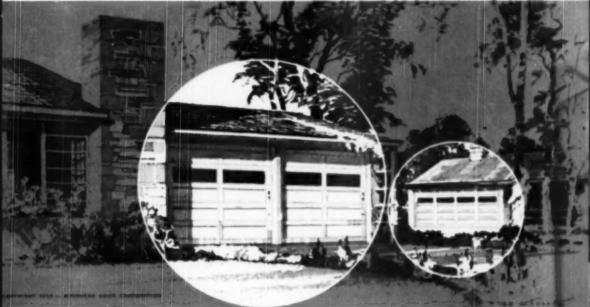
This is the famous and popular Kwiksky 5-pin tumbler lock with die-cast parts and wrought bronze or brass knob and trim—a plus value.

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Hartford City, Indiana, U. S. A.

SUPPLIE CAUCONIA DESCRIPTION

PORTLAND, GREGON

MILLION, HEW HERET LENGTH PRODUCTIONS COSTLAND, NEW YORK



No. 32 Tralley Door Hanger



F-51 Brucket



G-51 Joint Splice Brocket



No. 50 Trolley Door Hanger

For

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NATIONAL TROLLEY BOOK HANGERS are ideal for several types of heavy door installations including single and curved track and double track for passing doors.

No. 52 Trailey Dear Hanger has a flexible hinge-joint and is for use with No. 51 Trailey Rail. When the door is inaging in its normal position, the hanger is absolutely rigid; should anything bump against the door the flexible joint allows it to swing out.

The wheels are of pressed steel, 2½ in. diameter with large hardened roller bearings. The drop strap is of heavy gauge steel, deeply embassed for rigidity. The connecting bolt of automobile steel distributes the weight equally on all four wheels. Simple lateral and vertical adjustments can be made with wrench which is furnished with hanger. Adjusted for 2-inch doors when assembled. Finish Japan or Hot Galvanized.

No. 30 Traffey Door Hunger has the same mechanical features as No. 52 Traffey Door Hungers except that it is not equipped with flexible hinge joint. Furnished in Japan or Hot Galvanized finish.

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